PB196379

SELECTED BIBLIOGRAPHY OF ELECTROSTATIC PRECIPITATOR LITERATURE

MARCH 1970

NATIONAL AIR POLLUTION CONTROL ADMINISTRATION
Contract CPA 22-69-73

SOUTHERN RESEARCH INSTITUTE
2000 9th Avenue S. Birmingham, Alabama 35205

Reproduced by
NATIONAL TECHNICAL
INFORMATION SERVICE
Springfield, Va. 22151

161

This bibliography of electrostatic precipitator literature was prepared under Contract CPA 22-69-73 from the National Air Pollution Control Administration to Southern Research Institute. The review of the literature was performed by Research-Cottrell, Inc., who served as subcontractor on this program.

A literature review was first prepared covering the major sources likely to contain articles on precipitators or related subjects. A list of the sources searched is enclosed. The search covered the period from the initiation of the abstracting service to June 1969.

From the gross bibliography, a selection was made of articles containing significant precipitator data as judged by the journal, author, and title of the paper. From the 3000 entries in the original bibliography, about 1000 were selected as being of lasting or timely interest. Each of the articles in the selected bibliography has been provided with descriptors selected from a thesaurus of about 100 items. The articles, with their descriptors, have been arranged for computer access by key word.

The bibliography is arranged alphabetically by author and numbered sequentially. In the back of the bibliography, all of the descriptors comprising the thesaurus are listed with numbers corresponding to the articles for which the particular descriptor is appropriate. In this way, the articles covering a particular subject can be retrieved without the necessity for access to the computer. The use of the descriptor system can be illustrated by the following examples:

1. Suppose information is required for design of a power supply for a precipitator to remove oil droplets from high pressure natural gas. The following terms suggest themselves as descriptors: power supply, oil, high pressure, and natural gas. Bearing these in mind and scanning the thesaurus, we find that oil fume and high pressure are listed as descriptors. In addition, power supply and natural gas, although themselves not descriptors, cross reference electrical energization and methane which are. Other possible relevant descriptors noted in scanning the thesaurus include gaseous discharge (cross referenced from corona) and electric field. A still finer breakdown might also include discharge electrode. Under each of the descriptors listed, numbers corres-

ponding to the article are given. Thus, all the articles in the bibliography that have the particular descriptor are listed by the numbers. It may be reasonably hoped that papers listed under the foregoing descriptors will contain not only general design information on precipitator power supplies, but specific details such as current-voltage and sparkover characteristics for methane, perhaps even for various electrode configurations at high pressure.

2. Background material is sought on the application of electrostatic precipitation in the steel industry. Here the statement of the problem is so general that only a single descriptor is suggested, viz. steel. Scanning the thesaurus, it is seen that steel is not a descriptor, but its cross reference, iron and steel, is. Moreover, the following descriptors of interest are listed: basic-oxygen furnace, blast furnace, coke ovens, electric-arc furnace, and open-hearth furnace. A review of the literature derived from these descriptors might call attention to certain problem areas for which information is needed in greater depth; for example, high resistivity (cross referenced to resistivity), or conditioning, to name two of a larger number of possibilities.

STANDARD TITLE PAGE FOR TECHNICAL REPORTS	1. Report No. APTD-0612	2. Govt. Accession No.	3. Recipient's Catalog No.
4. Title and Subtitle: Selected Bibliography of Electrostatic Precipitator Literature			5. Report Date: March 1970 6. Performing Organization Code
7. Author(s)			8. Performing Organization Rept. No.
9. Performing Organization Name and Address: Southern Research Institute, 2000 9th Avenue, S., Birmingham, Alabama 35205			10. Project/Task/Work Unit No. 11. Contract/Grant No. CPA-22-69-73
12. Sponsoring Agency Name and Address: Division of Process Control Engineering, National Air Pollution Control Administration, Cincinnati, Ohio 45227			13. Type of Report & Period Covered 14. Sponsoring Agency Code
15. Supplementary Notes: from page 2			

16. Abstracts: This bibliography was performed by Research-Cottrell, Inc., who served as subcontractor. It is arranged alphabetically by author and numbered sequentially. In the back of the bibliography, about 100 descriptors comprising the thesaurus are listed with numbers corresponding to the articles for which the particular descriptor is appropriate. There are 1017 articles entered.

17. Key Words and Document Analysis. (a). Descriptors

Air pollution control equipment
Electrostatic precipitators
Bibliographies
Indexes (documentation)

17b. Identifiers/Open-Ended Terms

17c. COSATI Field/Group 13/02, 05/02

18. Distribution Statement	19. Security Class (This Report)	21. No. of Pages
Unlimited	UNCLASSIFIED	159
	20. Security Class. (This Page) UNCLASSIFIED	22. Price

FORM NBS-867(1-70)

This report was furnished to the Air Pollution Control Office by the Southern Research Institute in fulfillment of Contract No. CPA-22-69-73.

Sources Searched - Research-Cottrell, Inc.

1. Air Pollution Control Association Abstracts.
2. Electrical and Electronics Abstracts (Science Abstracts, Series B).
3. Physics Abstracts (Science Abstracts, Series A).
4. Chemical Abstracts (foreign).
5. Nuclear Science Abstracts.
6. Index to Publications of The Iron and Steel Institute.
7. Fuel Abstracts and Current Titles.
8. Engineering Index.
9. Applied Science and Technology Index.
10. British Technology Index.
11. Research-Cottrell Technical Information Center.
12. British Coal Utilization Research Association - Monthly Bulletin (foreign).
13. Air Pollution Titles.
14. Reprint collection of M. Robinson.
15. Bibliography on Aerosols, 1950-1955, W. J. Sheffy, supplement to AEC Report SO-10003, 1956.
16. Bibliography on Aerosols, R. A. Stehlow, AEC Report SO-1003, 1951.
17. Bibliography of Selected Articles on Electrical Precipitation, Anon., Cement Mill and Quarry 16, 18 (Feb. 20, 1920).

18. Southern Research Institute Bibliography derived from:

    a) Air Pollution Technical Information Center,
    b) Defense Documentation Center,
    c) Pennsylvania State University Center for Environmental Studies, and
    d) National Aeronautics and Space Administration.

19. Bibliography of Chapter 5, Air Pollution Control, W. Strauss, ed., New York, in press.

20. Bibliography of Handbuch der Staubtechnik, W. Koglin, ed., Maschinenfabrik Beth, Lübeck, Germany (foreign).

21. Bibliography of Industrial Electrostatic Precipitation, H. J. White, Addison-Wesley, Reading, Mass., 1963.

22. Bibliography of Electrostatyczne Odpylanie Gazow, J. Lutynski, WNT, Warsaw, 1965 (foreign).

23. Bibliography of Ochistka Promyshlennykh Gazov Elektrofiltrami, V.N. Uzhov, Gaskhimizdat., Moscow, 1967 (foreign).

24. Bibliography of An Introduction to Electrostatic Precipitation in Theory and Practice H. E. Rose and A. J. Wood, Constable, London, 2nd ed., 1966.

25. Bibliography of Sanitary Protection of Atmospheric Air, V. N. Uzhov, Medgiz, Moscow, 1955 (foreign).

26. Bibliographies of numerous papers on electrostatic precipitation.

1 ACKERMAN, R.
HIGHER OPTIMUM VELOCITY STEPS UP DUST COLLECTION RATE
ROCK PROD. 68, P 64-67, (OCT., 1965)
CONDITIONING
ECONOMICS
GAS FLOW
GYPSUM
PARTICLE MIGRATION VELOCITY

2 ADKINS, J. L.
CORROSION OF CONDENSERS, PURIFYING EQUIPMENT AND PRECIPITATORS
PROC. AM. GAS. ASSOC., P 706-11, (1950)
CORROSION

3 ADRIAN, R. C.
TWO-STAGE ELECTRICAL PRECIPITATORS
AIR POLLUTION ENG. MAN., J. A. DANIELSON, ED., U.S. PUBLIC HEALTH SERVICE PUB. NO. 999-AP-40, P 156-166, (1967)
CHARGING
CONTROLS
EFFICIENCY
GAS FLOW
MAINTENANCE
SAFETY
TWO-STAGE PRECIPITATORS

4 AIZPURUA, P. A.
PURIFICATION OF GASES PRODUCED IN CEMENT KILNS
MED. Y SEGURIDAD TRABAJO 5, NO. 19, P 69-73, (1957)
CEMENT

5 AKERLOW, E. V.
DESIGN AND CONSTRUCTION OF FONTANA OPEN HEARTH PRECIPITATORS
IRON STEEL ENG. 34, P 131-7, DISCUSSION P 138, (JUNE, 1957)
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

6 AKERLOW, E. V.
MODIFICATIONS TO THE FONTANA OPEN HEARTH PRECIPITATORS
IRON STEEL ENG. 35, P 97-103, (JULY, 1958)
J. AIR POLL. CONT. ASSOC. 7, P 39-43, (MAY, 1957)
GAS FLOW
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
RAPPING AND VIBRATING

7 ALBINSON, J.
PHYSICS AND CHEMISTRY IN GAS MFG. - ELECTROSTATIC PPTR. FOR GAS CLEANING
GAS J. (LONDON) 220, P 105, 107-9, (OCT., 1937) - GAS WORLD 107 P 314-7, (1937)
AMMONIA SEE ALSO CONDITIONING
COKE OVENS, SEE ALSO IRON AND STEEL
TAR

8 ALBRECHT, G.

SORTING OF FINELY DISPERSED DIELECTRIC POWDER ACCORDING TO
PARTICLE SIZE IN ELEC. FIELDS
TECHNIK, NO. 8, P 532-33, (1959)
ELECTRIC FIELD
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

9 ALDRICH, C. H.
TREATMENT OF SILVER FURNACE FUME BY THE COTTRELL PROCESS
TRANS. AM. ELECTROCHEM. SOC. 28, P 119-37, (1915)
NONFERROUS METALS

10 ALFORD, H. B.
NEW ADVANCES IN FLY-ASH CONTROL
COMBUSTION 32, P 45-9, (JULY, 1960)
ASH
COAL-FIRED BOILERS
RESISTIVITY, SEE ALSO BACK CORONA
RAPPING AND VIBRATING
CONTROLS

11 ALIEV, G. M. A., ET AL.
METHODS OF INTENSIFYING OPERATION OF ELECTRIC FILTERS FOR EXTRACTING
HIGH-RESISTANCE MAGNESITE DUST
OGNEUPORY 32, P 11-18, NO. 9, (SEPT., 1967)
EFFICIENCY
GAS FLOW
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

12 ALLANDER, C., ET AL.
THE EFFECT OF PARTICLE SIZE DISTRIBUTION ON EFFICIENCY IN
ELECTROSTATIC PRECIPITATORS
STAUB 17, P 738-45 (1957)
EFFICIENCY
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
CHARGING

13 ALLAN, D.L.
THE PREVENTION OF ATMOSPHERIC POLLUTION IN THE
CARBON BLACK INDUSTRY
CHEM AND IND NO. 42, P 1320-24 (OCT. 15, 1955)
AGGLOMERATION
CARBON BLACK, SEE ALSO CHEMICAL PROCESSES
PARTICLE CHARACTERISTICS

14 ALPISER, F.M.
AIR POLLUTION FROM DISPOSAL OF JUNK AUTOS
AIR ENG 10, NO. 11, P 18-22 (1968)
INCINERATION
IRON AND STEEL

15 ALSTON, L.L.
HIGH TEMPERATURE EFFECTS ON FLASHOVER IN AIR
PROC. INST. ELEC ENGRS. 105, PART A,

NO. 24 P. 549-553 (DEC. 1958)
GASEOUS DISCHARGE
TEMPERATURE EFFECT

16 ANDERSON, E.
ELECTRICAL PRECIPITATION IN THE GAS INDUSTRY
GAS AGE 83, P 23-5 (JUNE 22, 1939)
PACIFIC COAST GAS ASSN PROC 30, P 142 (1939)
CARBON BLACK, SEE ALSO CHEMICAL PROCESSES
TAR
PRESSURE EFFECT
METHANE
OIL FUME
OZONE, SEE ALSO AIR CLEANING

17 ANDERSON, E.
NATURE OF IONIZATION IN THE POINT-TO-PLATE DISCHARGE
PHYS. REV. 17, P 516-518, (1921)
ELECTRIC FIELD
GASEOUS DISCHARGE

18 ANDERSON, E.
RECENT PROGRESS IN ELECTRICAL PRECIPITATION
CHEM. MET. ENG. 26, P 151-3, (JAN., 1922)
BACK CORONA, SEE ALSO RESISTIVITY
EFFICIENCY
HISTORY

19 ANDERSON, E.
THE ROLE OF THE ELECTRIC WIND IN ELECTRICAL PRECIPITATION IN GASES
PHYSICS 3, P 23-8, (1932)
ELECTRIC WIND

20 ANDRITZKY, M.
GARBAGE POWER PLANT, MUNICH
BRENNSTOFF-WÄRME-KRAFT 14, NO. 5, P 232-3, (1962)
ASH
COAL-FIRED BOILERS
INCINERATION
POWER PLANT

21 ANDRITZKY, M.
FLUE-GAS CLEANING AND BOILER OPERATION
MITT. VER. GROSSKESSELBESITZER, NO. 23, P 375-84, (1953)
ASH
COAL-FIRED BOILERS
PARTICLE CHARACTERISTICS
POWER PLANT

22 ANDRITZKY, M.
CONSTRUCTION AND TESTS OF THE FLUE GAS DEDUSTING UNIT OF THE MUNICH INCINERATOR PLANT NORTH 1
BRENNSTOFF-WÄRME-KRAFT 19, P 436-9, (1967)
INCINERATION

23 ANONYMOUS

RESTRICTING DUST EMIS. FROM FORCED-DRAFT BOILER INSTL.,CAP. 10 TON/HR
AND OVER, HARD-COAL FIRED WITH MECH. GRATES
VEREIN DEUTSCHER INGENIEURE - RICHTLINIEN 2091, 27 P (1961)
ASH
COAL-FIRED BOILERS
CONDITIONING
CONTROLS
EFFICIENCY
ELECTRICAL ENERGIZATION
GAS FLOW
RESISTIVITY, SEE ALSO BACK CORONA

24 ANONYMOUS
RESTRICTING DUST EMIS. FROM FORCED-DRAFT BOILER INSTL.,CAP. 30 TON/HR
AND OVER, HARD-COAL DUST FIRED WITH DRY ASH REMV.
VEREIN DEUTSCHER INGENIEURE - RICHTLINIEN 2092, 27 P, (1961)
ASH
COAL-FIRED BOILERS
CONDITIONING
CONTROLS
EFFICIENCY
ELECTRICAL ENERGIZATION
GAS FLOW
RESISTIVITY, SEE ALSO BACK CORONA

25 ANONYMOUS
RESTRICTING DUST EMIS. FROM FORCED-BOILER INSTL.,CAP. 30-600 TON/HR
AND OVER, HARD-COAL DUST FIRED WITH LIQ. ASH REMV.
VEREIN DEUTSCHER INGENIEURE - RICHTLINIEN 2093, 27 P, (1961)
ASH
COAL-FIRED BOILERS
CONDITIONING
CONTROLS
EFFICIENCY
ELECTRICAL ENERGIZATION
GAS FLOW
RESISTIVITY, SEE ALSO BACK CORONA

26 ANONYMOUS
DUST EMISSION FROM INDUCED-DRAFT ORE-SINTERING INSTALLATIONS
VEREIN DEUTSCHER INGENIEURE - RICHTLINIEN 2095, 17 P, (1959)
EFFICIENCY
IRON AND STEEL
SINTERING MACHINES, SEE ALSO IRON AND STEEL

27 ANONYMOUS
RESTRICTING DUST EMISSION IN BLAST-FURNACE OPERATIONS
VEREIN DEUTSCHER INGENIEURE - RICHTLINIEN 2099, 23 P, (1959)
BLAST FURNACE, SEE ALSO IRON AND STEEL
CONDITIONING
EFFICIENCY
ELECTRICAL ENERGIZATION
GAS FLOW
IRON AND STEEL
MAINTENANCE
RESISTIVITY, SEE ALSO BACK CORONA

WET PRECIPITATORS

28 ANONYMOUS
RESTRICTING DUST EMISSION FROM COPPER-ORE SMELTERS
VEREIN DEUTSCHER INGENIEURE - RICHTLINIEN 2101, 30 P, (1960)
CONDITIONING
CONTROLS
COPPER, SEE ALSO NONFERROUS METALS
EFFICIENCY
ELECTRICAL ENERGIZATION
GAS FLOW
TEMPERATURE EFFECT
PARTICLE CHARACTERISTICS
RAPPING AND VIBRATING

29 ANONYMOUS
TECHNICAL GUARANTEES FOR DUST COLLECTORS
VEREIN DEUTSCHER INGENIEURE - RICHTLINIEN 2260, (1963)
EFFICIENCY

30 ANONYMOUS
OPERATION AND MAINTENANCE OF DUST COLLECTING PLANTS
VEREIN DEUTSCHER INGENIEURE - RICHTLINIEN 2264
MAINTENANCE

31 ANONYMOUS
NEW DEVELOPMENTS IN THE DISPOSAL OF INDUSTRIAL WASTES AND EFFLUENTS
BRIT. CHEM. ENG. P 98-100 (JUNE 1956)
AIR CLEANING
CHARGING
ELECTRIC FIELD
OZONE, SEE ALSO AIR CLEANING
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

32 ANONYMOUS
CLEANING BLAST FURNACE GASES BY ELECTRICAL PRECIPITATION
GELLERT ENG. CO. 1124 WIDEMER BLDG., PHIL., PA. (MAR., 1919)
BLAST FURNACE, SEE ALSO IRON AND STEEL

33 ANONYMOUS
CONTROL TECHNIQUES FOR PARTICULATE AIR POLLUTANTS
NATL. AIR POLL. CONT. ADMIN. PUB. NO. AP-51, WASH.,(1969) P 4-87 TO 4-126,6-44 TO 6-47,ET PASSIM
BOOKS ON ESP, ALSO EXTENDED TREATMENT OF ESP

34 ANONYMOUS
CRITERIA FOR PERFORMANCE GUARANTEE DETERMINATIONS
PUB. NO. 3, INDUST. GAS CLEANING INST., RYE, NY, (1965)
EFFICIENCY

35 ANONYMOUS
ELECTRICAL PRECIPITATION FOR BROWN COAL DUST
SIEMENS Z. 8, P 573-81, (1928)
COAL PROCESSING

36 ANONYMOUS
ELECTROSTATIC PRECIPITATION RECLAIMS VALUABLE FLUE DUST
AIR ENG. 10, NO. 11, P 16, (NOV., 1968)
LEAD, SEE ALSO NONFERROUS METALS
NONFERROUS METALS
TIN, SEE ALSO NONFERROUS METALS
ZINC, SEE ALSO NONFERROUS METALS

37 ANONYMOUS
PILOT ELECTROSTATIC PRECIPITATORS
PUB. NO. EP-6, INDUST. GAS CLEANING INST., INC., RYE, NY, (1968)
PILOT PLANT

38 ANONYMOUS
PROCEDURE FOR DETERMINATION OF VELOCITY AND GAS FLOW RATE
PUB. NO. 2, INDUST. GAS CLEANING INST., INC., RYE, NY, (1965)
AEROSOL SAMPLERS & ANALYZERS

39 ANONYMOUS
COOLING TOWER VAPOUR EMISSION - RESULTS OF
EXPERIMENT IN ESP
ELECTRICIAN 135, P 63-4 (JULY 20, 1945)
CONDITIONING

40 ANONYMOUS
ELECTROSTATIC PRECIPITATOR TECHNIQUES
MECH. ENG 87, P 50-1 (MAR 1965)
ASH
COAL-FIRED BOILERS
COLLECTING ELECTRODES
GAS FLOW
TEMPERATURE EFFECT
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

41 ANONYMOUS
FULL-SCALE SULFUR TRIOXIDE CONDITIONING ON THE
GASES AND DUST FROM NO. 1 BOILER AT KINCARDINE
PRIVATE REPT. ISSUED ONLY TO THE SOUTH OF SCOTLAND
ELECTRICITY BOARD (DEC. 1960)
ASH
COAL-FIRED BOILERS
CONDITIONING

42 ANONYMOUS
INVESTIGATION OF THE ELEC. PPTR. OF FLY ASHES FROM COALS TO BE
SUPPLIED TO THE LIDDELL POWER STA. 1...
COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RES. ORG., DIV. MIN. CHEM.,
COAL RES. LAB., INVEST. REPT. 68, (JULY, 1967)
ASH
COAL-FIRED BOILERS
PILOT PLANT

43 ANONYMOUS
NEW ELECTRODE RAISES EFFICIENCY OF PRECIPITATORS
POWER ENG. 62, P 76, (MAR. 1958)

DISCHARGE ELECTRODE

44 ANONYMOUS
PRECIPITATOR HAS WET BOTTOM - CIRCULATING SODA PULP BLACK LIQUOR
CHEM. ENG. 59, P 182, (NOV., 1952)
PULP AND PAPER

45 ANONYMOUS
SLIM DESIGNS - PLASTIC MODELS PARE POUNDS OF METAL OFF ELECTROSTATIC PRECIPITATORS
IND. ENG. CHEM. 50, P SUP. 27A-28A (APRIL, 1958)
GAS FLOW

46 ANONYMOUS
EVALUATION OF THE OPERATION OF ELECTROSTATIC PRECIPITATORS IN TERMS OF ENERGY.
ENERGOPIOMAR, GLIWICE, 4, P 21 (1961)
GASEOUS DISCHARGE

47 ANONYMOUS
COLD-END TEMPERATURE AND MATERIAL SELECTION GUIDE FOR LJUNGSTROM AIR PREHEATERS
THE AIR PREHEATER CO., INC., WELLSVILLE, N.Y.
CORROSION

48 ANONYMOUS
LIDDELL POWER STATION INVESTIGATION OF REQUIREMENTS FOR ESP'S
ELECTRICITY COMM. OF NEW SOUTH WALES RES NOTE NO. 59 (FEB. 1967)
POWER PLANT

49 ANONYMOUS
DUST PREVENTION - CEMENT INDUSTRY
VEREIN DEUTSCHER INGENIEURE - RICHTLINIEN 2094, 50 P. 1961
CEMENT
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
CONDITIONING
EFFICIENCY

50 ARCHBOLD, M. J.
COMMONWEALTH EDISON COMPANY REVIEWS ITS EXPERIENCE WITH PRECIPITATORS
ELEC. PPTR. 1959-1960,ENG. PROC. P 37, P 53-76, (DEC.,1960) (ENG. SEM. ON ELEC. PPTR. AT PENN. ST. UNIV. JUNE,1960)
ASH
COAL-FIRED BOILERS
COLLECTING ELECTRODES
CONTROLS
CORROSION
DISCHARGE ELECTRODE
EFFICIENCY
GASEOUS DISCHARGE
POWER PLANT
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

51 ARCHBOLD, M. J.

A VISUAL QUALITATIVE APPROACH TO DUCT DESIGN FOR POWER PLANTS
COMBUSTION 29, NO. 10, P 34-40, (1958)
GAS FLOW

52 ARCHBOLD, M. J.
DUST COLLECTORS FOR CONTROL STATION STEAM POWER PLANTS
COMBUSTION 28, P 34-43, (AUG., 1956)
ASH
COAL-FIRED BOILERS
CONTROLS
DISCHARGE ELECTRODE
EFFICIENCY
ELECTRICAL ENERGIZATION
GAS FLOW
RAPPING AND VIBRATING
POWER PLANT

53 ARCHBOLD, M. J.
OBSERVATIONS AND EXPERIENCES RESULTING FROM A PRECIPITATOR IMPROVEMENT PROGRAM
PROC. AM. POWER CONF. 23, P 371-390, (1961)
ASH
COAL-FIRED BOILERS
CONTROLS
DISCHARGE ELECTRODE
EFFICIENCY
ELECTRICAL ENERGIZATION
GAS FLOW
RAPPING AND VIBRATING

54 ARCHBOLD, M. J.
SOME TWO-DIMENSION GAS FLOW STUDIES RELATED TO ELEC. PPTR. AS APPLIED TO STEAM GENE. PLTS. OF ELEC. UTILITIES
PROC. ENG. SEMINAR ON ELECTROSTATIC PRECIPITATION
PENN STATE UNIVERSITY (1957)
GAS FLOW

55 ARCHER, A.
CLEAN AIR AND THE IRON FOUNDRY
PROC. INTERN. CLEAN AIR CONGR., LONDON, PART 1
P 99-102 (1966)
CUPOLA
FOUNDRIES
IRON AND STEEL

56 AROCOCHA, L.D.
REMOVAL OF DUST BY ESP'S
DYNA 40, NO. 11 P 587-95 (1966) TEXT IN SPANISH
CONDITIONING
ECONOMICS
RESISTIVITY, SEE ALSO BACK CORONA

57 ARRAS, A.
PRECIPITATION OF METAL CONTAINING DUST BY AN ELECTRO-FILTER

METALLWIRTSCHAFT 20, P 27-31, (1941)
IRON AND STEEL
NONFERROUS METALS

58 AUSTIN, H. C., ET AL.
CONTROL OF AIR POLLUTION FROM OIL-BURNING POWER PLANTS
MECH. ENG. 82, P 63-6, (APRIL, 1960)
OIL-FIRED BOILER
POWER PLANT
SULFUR OXIDES, SEE ALSO CONDITIONING

59 BAGNOLD, R. A.
PHYSICS OF BLOWN SAND AND DESERT DUNES
METHUEN, LONDON, (1941)
RE-ENTRAINMENT

60 BALABANOV, E. M.
PARTICLE CHARGE IN THE ELECTRIC FIELD OF A CORONA DISCHARGE IN A VERY DUSTY MEDIUM
ELEKTRICHESTVO, NO. 2, PP. 57-61 FEB. 1965
ELEC. TECHNOL. USSR ENGL. TRANSL. 1, P. 109 196
CHARGING
EFFICIENCY
GASEOUS DISCHARGE
PARTICLE MIGRATION VELOCITY

61 BALLMAN, H. C.
AIR POLLUTION CONTROL
PROC. ENG. SEMINAR ON ELEC. PPTR., PENN. ST. UNIV. (1957)
EROSOL SAMPLERS & ANALYZERS
SH
COAL-FIRED BOILERS
EFFICIENCY

62 BARRETO, E., ET AL.
PRODUCTION AND NEUTRALIZATION OF A CHARGED AEROSOL BY CORONA FIELDS
J. GEOPHYS. RES. 70, P 1303-10, (MARCH 15, 1965)
CHARGING
GASEOUS DISCHARGE

63 BARR, P., ET AL.
THE PREDICTION OF THE PERFORMANCE OF AN ELEC. PPTR. WIRE MACH. USING FISSION PRODUCT DATA
PUBL. NO. AERE-M-593 (DEC., 1959) NSA
RADIOACTIVE

64 BARTH, W.
THE USE OF MODEL EXPERIMENTS FOR SOLVING TECHNICAL FLOW PROBLEMS
VDI Z. 92, NO. 5, P 105-10 (1950)
GAS FLOW

65 BARTH, W.
PROBLEM OF COMBINING ELECTRIC AND MECHANICAL DUST COLLECTING PLANTS

STAUB 24, P 441-4, (NOV., 1964)
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
PARTICLE CHARACTERISTICS

66 BARTH, W.
THE DEVELOPMENT OF DUST COLLECTING TECHNOLOGY
STAUB 21, P 382-90, (1961)
HISTORY

67 BARTH, W., ET AL.
PROGRESS IN THE PURIFICATION OF WASTE GASES IN METAL REFINING - THE PHYSICAL BASIS OF DUST REMOV., ET SEQ.
Z. ERZBERGBAU U. METALLHÜTTENW 8, P 101-116, (1955)
IRON AND STEEL
NONFERROUS METALS

68 BARTON, A. E., ET AL.
ELECTRO. PPTR. INSTALL. AT BHAM. INCIN. PLANT - SUMMARY OF TESTS ON EMIS. FROM REFUSE INCIN. CHIMN. STACKS IN BHAM.
MUNICIPAL ENG. 143, P 2195+, (OCT. 28, 1966)
INCINERATION

69 BARTOS, S.
SEMICONDUCTOR RECTIFIER FOR SUPPLYING ELECTRIC PRECIPITATORS
ELEKTROTECHN OBZ 54, P 278-82, (JUN 1965), (CZECH.)
ELECTRICAL ENERGIZATION

70 BATEL, W.
ON THE ADHESION OF DRY, FINE MATERIALS
CHEM. ING. TECH.,31, NO. 5, P 343-45, (1959)
PARTICLE CHARACTERISTICS
RAPPING AND VIBRATING

71 BAUMAN, H. A.
AIR POLLUTION PREVENTION IN ELECTRIC GENERATING STATIONS
ELEC. ENG. 72, P 200-4, (MARCH, 1953)
ABSTRACT
CONTROLS
EFFICIENCY
RAPPING AND VIBRATING
RE-ENTRAINMENT
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
POWER PLANT

72 BAUMAN, H. A.
ELECTROSTATIC PRECIPITATORS IN PUBLIC ULILITIES
ENGINEERING SEMINAR ON ELECTROSTATIC PRECIPITATION,
PENN. STATE UNIV. (1955)
ASH
POWER PLANT

73 BAXTER, W. A.
RECENT ELEC. PPTR. EXPERIENCE WITH AMMONIA CONDITIONING OF POWER BOILER FLUE GAS
J. AIR POLLUTION CONTROL ASSOC. 18, P 817-20, (1968)
AMMONIA SEE ALSO CONDITIONING

COAL-FIRED BOILERS
CONDITIONING
EFFICIENCY
RESISTIVITY, SEE ALSO BACK CORONA

74 BEAVER, C. E.
CORRECT POWER SUPPLY - KEY TO EFFICIENT ELEC. PPTR. FLY-ASH COLLECTION
POWER 99, P 85-7, (SEPT., 1955)
CONTROLS
ELECTRICAL ENERGIZATION

75 BEAVER, C. E.
COTTRELL ELEC. PPTR. EQUIP. - SOME TECH. AND ENG. FEATURES-RECENT DEVEL. AND APP. IN THE CHEM. FIELD
TRANS. AM. INST. CHEM. ENGRS 42,P 251-60,(1946), ABSTRACT CHEM. METAL ENG. 53, P 2704,(APR.,1946)
ASH
BACK CORONA, SEE ALSO RESISTIVITY
BLAST FURNACE, SEE ALSO IRON AND STEEL
CARBON BLACK, SEE ALSO CHEMICAL PROCESSES
CATALYTIC PROCESSES, SEE ALSO PETROLEUM REFINING
EFFICIENCY
GAS FLOW
PRESSURE EFFECT
TEMPERATURE EFFECT
IRON AND STEEL
PULP AND PAPER
PETROLEUM REFINING
PHOSPHOROUS, SEE ALSO CHEMICAL PROCESSES
RESISTIVITY, SEE ALSO BACK CORONA

76 BEAVER, C. E.
THIS NEW RAPPER IMPROVES ELECTROSTATIC PRECIPITATION
POWER ENG. 59, P 84-5, 98+, (JAN., 1955)
PARTICLE CHARACTERISTICS
RAPPING AND VIBRATING

77 BELOVODSKII, B. T., ET AL.
NEW METHOD OF APPARATUS CONSTRUCTION IN THE PRODUCTION OF CONCENTRATED SULFURIC ACID
PROM.-EKON. BYULL. SOVET. NAVOD. KHOZ. PERMSK. EKON. ADMIN. RAIONA (1958) NO. 8, P 15-16 REFEVAT ZHUR KHIM (1959)
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

78 BENNELL, D. A.
COST AND PERFORMANCE OF FILTRATION AND SEPARATION EQUIPMENT
FILTRATION SEPARATION 5, P 150-5,176, (MARCH, 1968)
ECONOMICS

79 BERG., B. R.
DEVELOPMENT OF NEW HORIZONTAL FLOW PLATE-TYPE PRECIPITATOR FOR BLAST FURNACE GAS CLEANING
IRON STEEL ENGR. 36, P 93-101, (OCT., 1959)
BLAST FURNACE, SEE ALSO IRON AND STEEL
EFFICIENCY

PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
PILOT PLANT
WET PRECIPITATORS

80 BERG, T. G. D., ET AL.
CHARGE ANALYZER FOR AEROSOLS AND SPRAYS
REV. SCI. INSTR. 35, P 719-23, (JUNE, 1964)
AEROSOL SAMPLERS & ANALYZERS

81 BERRY, B. C.
A CASE HISTORY OF AUTOMATIC ASH AND DUST HANDLING PROGRESS
COMBUSTION 28, P 45-9, (JUNE, 1957)
ASH
DUST DISPOSAL
COAL-FIRED BOILERS
CONTROLS

82 BERRY, R. A., ET AL.
INVESTIGATIONS RELATING TO THE RECOVERY OF POTASH FROM BLAST FURNACE DUST
J. SOC. CHEM. IND. (JAN. 15, 1918)
BLAST FURNACE, SEE ALSO IRON AND STEEL

83 BIANCONI, W. O.
RAPID METHOD FOR EVALUATING DUST COLLECTORS
OCCUP. HEALTH REV. (OTTAWA), 19, P 20-22, (1967)
EFFICIENCY
PARTICLE CHARACTERISTICS

84 BIELANSKI, K.
TESTING OF RESISTIVITY OF ELECTROFILTER DUSTS
ENERGETYKA 22, P 136-8, (APRIL, 1968)
RESISTIVITY, SEE ALSO BACK CORONA

85 BINGEL, ROLF, ET AL.
THE IMPORTANCE OF GAS DISTRIBUTION IN ESP'S
STAUB 19, 422, DEC. 1959 (GERMAN)
EFFICIENCY
GAS FLOW

86 BISHOP, C. A.
SOME EXPERIENCES WITH AIR POLLUTION ABATEMENT IN THE STEEL INDUSTRY
PROC. AIR POLLUTION CONTROL ASSOC. P 32-6, (1952)
BLAST FURNACE, SEE ALSO IRON AND STEEL
COKE OVENS, SEE ALSO IRON AND STEEL
CUPOLA
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

87 BISHOP, C. A., ET AL.
CLEANING FERROMANGANESE BLAST-FURNACE GAS
AM. IRON STEEL INST., YEARBOOK, P 459-475 (1951)

BLAST FURNACE, SEE ALSO IRON AND STEEL

CONDITIONING
FERRO-MANGANESE
IRON AND STEEL
PILOT PLANT

88 BITETTO, V., ET AL.
FLUID-DYNAMIC BEHAVIOR OF GAS DUCTS OF A LARGE POWER-GEN STATION BY MEANS OF TRANSPARENT SCALE MODELS
TERMOTECHNICA (MILAN) 21, NO. 5, P 239-53 (1967)
GAS FLOW

89 BLACKMORE, R. H.
METHODS OF COLLECTING LIME AND CALCIUM CARBIDE EMISSIONS
AIR POLL. CONTROL ASSOC. MTG., PORTLAND, (NOV., 1964)
LIME

90 BLASKOWSKI, H. J., ET AL.
ECONOMICS OF GAS COOLING AND GAS CLEANING SYSTEMS ASSOCIATED WITH THE BOF PROCESS
COMBUSTION 39, P 31-35, (NOV., 1967)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
ECONOMICS

91 BLESSING, K.E.
ELECTRIC FURNACE FUME CONTROL
AICHE MEETING, CHICAGO, DEC. 1962
ELECTRIC ARC FURNACE

92 BLOHM, H.
DEVELOPMENT OF ELECTROSTATIC FILTERS, THEORY OF ELEC. FILTERS, SMOKE FILTERS, STEAM FILTERS, COMB. FILTERS
BRAUNKOHLE 10, P 481-3, (1958)
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
EFFICIENCY
PARTICLE CHARACTERISTICS

93 BLOOMFIELD, B. D.
COSTS, EFFICIENCIES AND UNSOLVED PROBLEMS OF AIR POLLUTION CONTROL EQUIPMENT
J. AIR POLLUTION CONTROL ASSOC. 17, P 28-32, (1967)
CUPOLA
ECONOMICS
EFFICIENCY
FOUNDRIES
INCINERATION
SULFUR OXIDES, SEE ALSO CONDITIONING

94 BLOSSER, R. O., ET AL.
TRENDS IN REDUCTION OF SUSPENDED SOLIDS IN KRAFT MILL STACKS
PAPER TRADE JOURNAL 151, P 46-51, (MARCH, 1967)
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
CORROSION
PULP AND PAPER
SULFUR OXIDES, SEE ALSO CONDITIONING

95 BLOSSER, R. O., ET AL.

TRENDS IN ATMOSPHERIC PARTICULATE MATTER REDUCTION IN THE KRAFT INDUSTRY
TAPPI 51, P SUP. 73A-7A, (MAY, 1968)
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
LIME
PULP AND PAPER

96 BOARD, F. W.
DUST COLLECTION-REDUCING MAINTENANCE COSTS AND INCREASING EFFICIENCY
J. INST. FUEL 36, P 240-4, (JUNE, 1963)
ASH
COAL-FIRED BOILERS
ECONOMICS
MAINTENANCE

97 BOHLEN, B., ET AL.
NEW METHOD OF ELECTROSTATIC DUST REMOVAL FROM GASES
CHEM. ING. TECH. 39, P 910-13, (AUG. 10, 1967)
DISCHARGE ELECTRODE

98 BOHM, J.
THE MOVEMENT OF PARTICLES IN ELECTROSTATIC PRECIPITATORS
ELEKTROTECH. OBZ. 38, P 613-23, (DEC. 23, 1949)
GAS FLOW
PARTICLE MIGRATION VELOCITY

99 BOHM, J.
THE ELECTRIC FIELD IN TUBULAR ELECTROSTATIC PRECIPITATORS
ELEKTROTECH. OBZ. 39, NO. 19-20, P 436-42, (1950)
CHARGING
ELECTRIC FIELD
GASEOUS DISCHARGE

100 BOHM, J.
CONTRIBUTION TO THE CALCULATION OF ELECTRO-PRECIPITATORS II
SELECTED ARTICLES OF THE RESEARCH INST. IN AIR HANDLING EQUIP., PRAGUE, NO. 2, P 5-27, (1959)
AGGLOMERATION
ASH
EFFICIENCY
PARTICLE CHARACTERISTICS

101 BOHM, J.
DELAY IN CHARGING OF PARTICLES IN AN ELECTRO-PRECIPITATOR
STAUB 28, NO. 7, P 270-3, (JULY, 1968)
CHARGING
ELECTRICAL ENERGIZATION
GAS FLOW

102 BORG, L.
HIGH-VOLTAGE SELENIUM RECTIFIERS
ASEA J. 29, P 3-10, (1956)
ELECTRICAL ENERGIZATION

103 BOTHE, R.

REMOVAL OF DUST FROM THE WASTE GASES OF IRON ORE SINTERING PLANTS
STAHL EISEN 88, NO. 25, P 1414-22, (1968)
EFFICIENCY
IRON AND STEEL
SINTERING MACHINES, SEE ALSO IRON AND STEEL

104 BOULIND, H.F.
CORONA DISCHARGES IN VARIOUS GASES
PHIL. MAG. 18, NO. 7, P 909-21 (1934)
GASEOUS DISCHARGE

105 BOULLOUD, A.
DISAPPEARANCE OF POSITIVE CORONA IN COMPRESSED AIR
COMPT. REND., 242, P 2542 (1956)
GASEOUS DISCHARGE
PRESSURE EFFECT

106 BOULLOUD, A.
EFFECT OF TEMPERATURE ON PREBREAKDOWN CURRENTS IN COMPRESSED GAS
COMPT. REND. 249, P 1202-4 (1959)
GASEOUS DISCHARGE
PRESSURE EFFECT
TEMPERATURE EFFECT

107 BOULLOUD, A.
PREDISCHARGE CURRENTS IN COMPRESSED GASES (SCHOTTKY EFFECT)
J. PHYS. RADIUM 17, NO. 6, P 215-225 (1956)
GASEOUS DISCHARGE
PRESSURE EFFECT

108 BOULLOUD, A.
SPARKOVER VOLTAGE IN COMPRESSED HYDROGEN AND NITROGEN
J. PHYS. RADIUM 17, SUPP. NO. 11 P 129A-134A (1956)
GASEOUS DISCHARGE
PRESSURE EFFECT

109 BOULLOUD, A.
CALCULATION OF THE ELECTROSTATIC FORCE TENDING TO RAISE A CONDUCTING SPHERE PLACED ON A CONDUCTING PLANE
COMPT. REND. 246, P 3325-8, (JUNE 16, 1958)
RESISTIVITY, SEE ALSO BACK CORONA CHARGING

110 BOVIER, R. F.
SULFUR-SMOKE REMOVAL SYSTEM
PROC. AMER. POWER CONF., 26 , P 138 (APR 1964)
ASH
COAL-FIRED BOILERS
ECONOMICS
TEMPERATURE EFFECT
POWER PLANT

SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

111 BOYCE, H. P.
DRY ELECTROSTATIC PRECIPITATORS ON OPEN HEARTH FURNACES
IRON STEEL INST. (LONDON) SPEC. REPT. NO. 83, P 48-53, (1964)
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

112 BOYLETT, F. D. A.
SOME ASPECTS OF THE CORONA DISCHARGE IN RELATION TO ELECTROSTATIC PRECIPITATION
GAS DISCHARGES AND THE ELECTRICITY SUPPLY IND., J.S. FORREST, ET AL. ED.,BUTTERWORTHS, LONDON, P 181-91, (1962)
GASEOUS DISCHARGE

113 BOYLE, A. R., ET AL.
THE ELECTRIFICATION OF METAL DUSTS
J. SOC. CHEM. IND. 69, P 45-9, (FEB., 1950)
CHARGING
SAFETY

114 BRACKETT, C. E.
AIR POLLUTION CONTROL IN STEAM ELECTRIC GENERATING PLANTS
AIR POLLUTION CONTROL SHORT COURSE, AUBURN ENG. EXT. SERV., (JUNE 5, 1968)
ASH
COAL-FIRED BOILERS
POWER PLANT

115 BRAGG, L. G.
GAS FLOW MODEL STUDIES OF FLUES
CAN. MINING METAL BULL. 55, P 707-12, (1962)
GAS FLOW

116 BRANCATO, B.
THE INCINERATION OF URBAN SOLID REFUSE IN THE MILAN PLANT
FUMI/POLVERI (MILAN) 7, NO. 4, P 70-8, (1967)
INCINERATION
POWER PLANT

117 BRANDT, H.
THE POSSIBILITIES OF FURTHER DEVELOPMENT IN DUST REMOVAL TECHNIQUES
STAUB (ENGL. TRANSL) 25, P 23-32, (OCT., 1965)
ASH
COAL-FIRED BOILERS
EFFICIENCY
LIGNITE
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING

118 BRANDT, H.
RECENT DEVELOPMENTS WITH ELECTROSTATIC PRECIPITATORS
MITT. VER. GROSSKESSELBESITZER, NO. 60, P 229-35, (1959)
ASH

CHARGING
COLLECTING ELECTRODES
DISCHARGE ELECTRODE
RAPPING AND VIBRATING
SULFUR OXIDES, SEE ALSO CONDITIONING

119 BRANDT, H.
EFFECT OF GAS VELOCITY ON PARTICLE MIGRATION VELOCITY IN AN ELEC. PPTR.
STAUB 23, P 378-9, (AUG., 1963)
EFFICIENCY
GAS FLOW
PARTICLE MIGRATION VELOCITY

120 BRANDT, H.
FLUE GAS PRECIPITATORS FOR MAXIMUM SEPARATION EFFICIENCY
TECH. MITTEIL, 58, P 9-12, (JAN., 1965)
EFFICIENCY
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
RAPPING AND VIBRATING

121 BRANDT, H.
PROBLEMS, KNOWLEDGE, AND APPLICATIONS OF DUST REMOVAL PLANT
ENERGIE (MUNICH) 20, P 297-302, (OCT., 1968)
COLLECTING ELECTRODES
DISCHARGE ELECTRODE
GAS FLOW
RAPPING AND VIBRATING
RESISTIVITY, SEE ALSO BACK CORONA

122 BRANDT, H.
THE STATE OF DEVELOPMENT OF ELECTRICAL PRECIPITATORS FOR BOILER GASES
TECH. ÜBERWACH 1, P 177-81, (MAY, 1960)
ASH
COAL-FIRED BOILERS
COLLECTING ELECTRODES
DISCHARGE ELECTRODE
EFFICIENCY

123 BRICARD, J., ET AL.
CHARGE ON ULTRAFINE AEROSOLS IN A WEAKLY IONIZED MEDIUM - APP. TO LARGE ATMOSPHERIC IONS
J. PHYSIQUE 26, SUPPL. NO. 4, P 141A-147A, (APRIL, 1965)
CHARGING

124 BRIEF, R. S., ET AL.
PROPERTIES AND CONTROL OF ELECTRIC-ARC STEEL FURNACE FUMES
JAPCA 6, P 220-4, (FEB., 1957)
CONDITIONING
EFFICIENCY
ELECTRIC ARC FURNACE
IRON AND STEEL
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

125 BRION, G.

IONIZATION SURFACES AND THEIR MODE OF ACTION IN THE ELEC.
PURIFICATION OF GASES
ELEKTROTECH. Z. 60, P 1113-5, (1939)
CHARGING
COLLECTING ELECTRODES
CONTROLS
DISCHARGE ELECTRODE
GASEOUS DISCHARGE
RE-ENTRAINMENT

126 BRION, G., ET AL.
INVESTIGATIONS OF ELECTRICAL GAS CLEANING
Z. VER. DEUT. ING. 75, P 1455-8, (NOV., 1931)
CHARGING
ELECTRICAL ENERGIZATION
TWO-STAGE PRECIPITATORS

127 BROCKE, W.
PROSPECTS FOR THE PRACTICAL APPLICATION OF FLUE GAS
DESULFURIZATION
STAUB (ENGLISH TRANS.) 28, NO. 3, P 15-25, (1968)
ECONOMICS
EFFICIENCY
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

128 BROWN, J.K, ET AL.
A LIGHTWEIGHT POWER SUPPLY FOR AN ELECTROSTATIC PRECIPITATOR
A.M.A. ARCH. IND. HYG. OCC. MED. 3, P 198-203, (FEB., 1951)
ELECTRICAL ENERGIZATION

129 BROWN, S. C., ET AL.
HANDBOOK OF PHYSICS, E. V. CONDON, AND H. ODISHAW, ED., MCGRAW-HILL
NEW YORK, P 4-170 TO 4-187 (1967)
GASEOUS DISCHARGE

130 BRUCE, J.
ELECTROSTATIC PRECIPITATION OF DUST FROM BOILER-PLANT FLUE
GAS
J. INSTN. ELEC. ENGRS. 92II,POWER ENG. P 58-72,(APR.1945)P 326-33
(AUG.1945)-STEAM ENGR. 14,P 120-2,(JAN.1945),ETC.
ASH
COAL-FIRED BOILERS

131 BRUCKNER, H.
MODERN PRACTICES IN GAS PURIFICATION AND HYDROCARBON
RECOVERY
GAS, WASSER, WARME 9, P 203-211, (1955)
TAR

132 BRUEDERLE, E., ET AL.
ELECTRO-PRECIPITATORS IN EUROPEAN IRON AND STEEL INDUSTRY
BLAST FURNACE STEEL PLANT 48, P 1031-7, (OCT., 1960)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
BLAST FURNACE, SEE ALSO IRON AND STEEL
COKE OVENS, SEE ALSO IRON AND STEEL

CUPOLA
ELECTRIC ARC FURNACE
IRON AND STEEL
SINTERING MACHINES. SEE ALSO IRON AND STEEL

133 BUMP, ROBERT L.
PRECIPITATOR EFFICIENCY MEASUREMENTS
ELEC. PREC. 1959-1960, ENG. PROC. P 37, P 41-43, (DEC.,1960) (ENG. SEM. ON ELEC. PPTR. AT PENN. ST. UNIV. JUNE,1960)
AEROSOL SAMPLERS & ANALYZERS
EFFICIENCY

134 BUMP, R. L.
EUROPEAN INSTALLATIONS
PROC. MECAR SYMP.,, NYC, P 85-90, (OCT.,, 1967) - NEW DEV. IN AIR POLLUTION CONTROL
ASH
COAL-FIRED BOILERS
INCINERATION
POWER PLANT

135 BUMP, R. L.
ELECTROSTATIC PRECIPITATOR MAINTENANCE
POWER 103, P 202-4, (DEC.,, 1959)
DISCHARGE ELECTRODE
DUST DISPOSAL
ELECTRICAL ENERGIZATION
GAS FLOW
MAINTENANCE
RAPPING AND VIBRATING

136 BUMP, R. L.
THE USE OF ELECTROSTATIC PRECIPITATORS FOR INCINERATOR GAS CLEANING IN EUROPE
PROC. 1960 NATL. INCINERATOR CONF.,, AM. SOC. ENGRS. P 161-6, (1966)
ECONOMICS
EFFICIENCY
CONDITIONING
INCINERATION

137 BUMP, R. L.
USE OF ELECTROSTATIC PRECIPITATORS ON MUNICIPAL INCINERATORS
J. AIR POLLUTION CONTROL ASSOC. 18, P 803-9, (1968)
ECONOMICS
EFFICIENCY
INCINERATION

138 BURKE, E.,, ET AL.
PRACTICAL ASPECTS OF DUST CONTROL IN THE CEMENT INDUSTRY
SMOKELESS AIR 27, P 179 (1957) - MECH. ENG. AND CLEAN AIR CONF. (LONDON) (1957)
CEMENT
ECONOMICS
EFFICIENCY
TEMPERATURE EFFECT

139 BURKS, G. P.
MODERN BLAST-FURNACE GAS CLEANING
AM. INST. MET. ENGRS., BLAST FURNACE, COKE OVEN, RAW MAT. CONF. 9
P 91-103,(1950)-J. METALS 188,P 746-50,(MAY, 1950)
BLAST FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL
WET PRECIPITATORS

140 BURTON, C.L., ET AL.
APPLICATION OF MODEL STUDIES TO INDUSTRIAL GAS-
FLOW SYSTEMS
AM. SOC. MECH. ENGRS. ANN. MTG. ATLANTIC CITY
N.J. NOV-DEC 1959, PAPER 59-A-280, 9P (1959)
GAS FLOW

141 BURY, E., ET AL.
ELECTROSTATIC DEPOSITION OF DUST FROM BLAST FURNACE GAS AND
EXTRACTION OF POTASH THEREFROM
IRON AND COAL TRADES REV. 102, P 191-2, (1921)
BLAST FURNACE, SEE ALSO IRON AND STEEL
DUST DISPOSAL
IRON AND STEEL

142 BUSBY, H. G. T., ET AL.
CHARACTERISTICS OF ELECTROSTATIC PRECIPITATORS
COLLOG. INTERN. CENTRE NATL. RECH. SCI. (PARIS) NO. 102, P 229-253
(1961)
CHARGING
COLLECTING ELECTRODES
CUPOLA
DISCHARGE ELECTRODE
EFFICIENCY
GAS FLOW
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
PILOT PLANT

143 BUSBY, H. G. T., ET AL.
EFFICIENCY OF ELECTROSTATIC PRECIPITATORS AS AFFECTED BY THE PROP.
AND COMBUSTION OF COAL
J. INST. FUEL 36, P 184-97, (MAY, 1963)
BACK CORONA, SEE ALSO RESISTIVITY
COLLECTING ELECTRODES
CONDITIONING
EFFICIENCY
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

144 BYRNE, P. H.
THE USE OF COMBINED ALTERNATING AND DIRECT VOLTAGES IN
ELECTROSTATIC PRECIPITATION
INST. ELEC. ELECTRON ENGRS. PAPER 31-CP-66-142, (1966)
ELECTRICAL ENERGIZATION

145 CADLE, R.D.
PARTICLE SIZE DETERMINATION
INTERSCIENCE MANUAL NO. 7, 303 P (1955)
PUBL. BY INTERSCIENCE PUBL. INC., NY
AEROSOL SAMPLERS & ANALYZERS
PARTICLE CHARACTERISTICS

146 CADLE, R. D.
PARTICLE SIZE, THEORY AND INDUSTRIAL APPLICATIONS
REYNOLD PUBLISHING CORP., N.Y. (1965)
PARTICLE CHARACTERISTICS

147 CADWALLADER, L. W.
COST, APPL. & PERFORMANCE OF SERIES DUST COLL. INSTALL. ON LARGE PULVERIZED COAL BOILERS
PROC. AIR POLL. CONT. ASSOC. P 119-24, (1952) - COMBUSTION 24, NO. 2, P 47-9, (1952)
ASH
COAL-FIRED BOILERS
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
ECONOMICS
EFFICIENCY

148 CAHILL, W. J.
CONTROL OF PARTICULATE EMISSIONS ON ELECTRIC UTILITY BOILERS
PROC. METROPOLITAN ENGRS. COUNC. ON AIR RESOURCES, NEW YORK - NEW DEVELOPMENTS IN AIR POLL. CONTROL, P 74-84, (1967)
ASH
COAL-FIRED BOILERS
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
CORROSION
ECONOMICS
EFFICIENCY
TEMPERATURE EFFECT
OIL-FIRED BOILER
POWER PLANT
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING

149 CAHILL, W. J., ET AL.
LOW SULFUR COAL CUTS PRECIPITATOR EFFICIENCY
ELEC. WORLD 168, P 111-2, (NOV., 1967)
ASH
COAL-FIRED BOILERS
CONDITIONING
EFFICIENCY
SULFUR OXIDES, SEE ALSO CONDITIONING

150 CARSON, B.
SPELL OUT SPECIFICS ON PRECIPITATOR MAINTENANCE
PLANT ENG. 19, P 128-9, (NOV., 1965)
MAINTENANCE

151 CATCHPOLE, S.
POWER GENERATION AND CLEAN AIR
CEGB NEWSLETTER NO. 74, (AUG., 1967)

POWER PLANT

152 CAVANAGH, P.
METHOD FOR DISPLAYING LINES OF FORCE IN AN ELECTROSTATIC FIELD
AM. J. PHYS. 34, NO. 11 P 1034-1036, (NOV 1966)
ELECTRIC FIELD

153 CEDERHOLM, C.
COLLECTION OF DUST FROM REFUSE INCINERATORS IN ELEC. PPTR. PROVIDED WITH MULTICYCLONE AFTER-COLLECTORS
PROC. INT. CLEAN AIR CONGR. (LONDON) (1966), NATL. SOC. CLEAN AIR 1, P 122-5, (1966)
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
INCINERATION
RESISTIVITY, SEE ALSO BACK CORONA

154 CHALLANDE, R.
APP. OF BETA IRRADIATION AND EMISSION TO THE STUDY OF THE ELEC. PPTR. OF SPHERICAL PART. (MICROSCOPIC & SUBMICROSCOPIC)
COMPT. REND. 237, P 35-6, (JULY 6, 1953)
RADIOACTIVE
PARTICLE CHARACTERISTICS

155 CHALLANDE, R.
CONDUCTION OF MICRONIC AND SUB-MICRONIC SPHERICAL CONDUCTING PART. IN AN INTENSE IONIZING ELEC. FIELD
J. RECH. CENT. NAT. RECH. SCI. 6, P 291-318, (SEPT., 1955)
CHARGING
ELECTRIC FIELD
GASEOUS DISCHARGE

156 CHAMBERLIN, R. L.
BALANCED DESIGN IN ELECTROSTATIC PRECIPITATION
BLAST FURNACE STEEL PLANT 47, P 1086-9, (1959)
COLLECTING ELECTRODES
DISCHARGE ELECTRODE
ELECTRICAL ENERGIZATION
GAS FLOW
RAPPING AND VIBRATING

157 CHAMBERLIN, R. L.
WHAT PRICE INDUSTRIAL GAS CLEANING
PROC. INTERN. CLEAN AIR CONGR. PART 1, P 133-5, (1966)
AIR CLEANING
CEMENT
COAL-FIRED BOILERS
ECONOMICS
IRON AND STEEL
POWER PLANT

158 CHAMBERLIN, R. L., ET AL.
ECONOMIC ASPECTS OF AIR POLLUTION CONTROL FOR WORLD'S HEAVY INDUSTRIES
1ST WORLD CONGRESS ON AIR POLLUTION, BUENOS AIRES, (1965)
ASH
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL

CEMENT
COAL-FIRED BOILERS
ECONOMICS
ELECTRIC ARC FURNACE
MAINTENANCE
PULP AND PAPER

159 CHAMBERLIN, R. L., ET AL.
ABATEMENT OF AIR POLLUTION AT THE INDUSTRIAL PLANT
INDUSTRIAL COAL CONF., PURDUE UNIV., (OCT., 1963)
CHARGING
COAL-FIRED BOILERS
COLLECTING ELECTRODES
DISCHARGE ELECTRODE
ECONOMICS
EFFICIENCY
PARTICLE MIGRATION VELOCITY
RAPPING AND VIBRATING

160 CHAPMAN, H. M.
EXPERIENCE WITH SELECTED AIR POLLUTION CONTROL INSTALLATIONS
IN THE BETHLEHEM STEEL COMPANY
JAPCA 13, P 604-6, (DEC., 1963)
EFFICIENCY
ELECTRIC ARC FURNACE
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

161 CHEKANOV, G.S., ET AL.
TESTING OF ELECTROSTATIC FILTERS ON BOILERS
WITH CYCLONE PRECOMBUSTION FURNACES
ELEK. STANTSII 39, NO. 5, P 13-16, (1968)
TEXT IN RUSSIAN
ASH
COAL-FIRED BOILERS
POWER PLANT

162 CHIOTA, A. J.
DETERMINATION OF THE SIZE DISTRIBUTION OF AEROSOLS COLLECTED
BY ELECTROSTATIC PRECIPITATION
DDC AD - 419022, USAF WRIGHT-PATTERSON AFB, P 83 (MAY 1963)
PARTICLE CHARACTERISTICS

163 CHO, A. Y. H.
CONTACT CHARGING OF MICRON-SIZED PARTICLES IN INTENSE ELECTRIC
FIELDS
J. APPL. PHYS. 35, P 2561-4, (SEPT., 1964)
CHARGING
ELECTRIC FIELD
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

164 CHUBB, J. N.
EXPERIMENTAL STUDIES OF AIRBORNE PARTICLE BEHAVIOR IN CORONA
DISCHARGE FIELDS
INST. ELEC. ENGRS. COLLOQ. ON ELEC. PPTR. (FEB., 1965)

ELECTRIC WIND
GAS FLOW

165 CLOUD, R.W., ET AL.
D-C BREAKDOWN STRENGTH OF AIR AND OF FREON IN A UNIFORM FIELD AT HIGH PRESSURES
TRANS. AMER. INST. ELEC. ENGRNG. 60, P 132-5 (MAR 1941)
ELECTRIC FIELD
GASEOUS DISCHARGE
PRESSURE EFFECT

166 COBINE, J. D.
GASEOUS CONDUCTORS, MCGRAW-HILL, NEW YORK, 1941 - ALSO, DOVER PUBLICATIONS, INC., NEW YORK, 1957
GASEOUS DISCHARGE

167 COCHET, R. ET AL.
MEASUREMENT OF POTENTIAL IN UNIPOLAR IONIZED ELECTRIC FIELDS
COMPT. REND. 240, P 1516, (1955)
EFFICIENCY
GASEOUS DISCHARGE

168 COCHET, R. ET AL.
ION CAPTURE BY AN INFINITE CONDUCTING CYLINDER IN A UNIPOLAR IONIZING FIELD
COMPT. REND. 241, P 283-85, (1955)
ELECTRIC FIELD
PARTICLE MIGRATION VELOCITY

169 COCHET, R.
CHARGING LAWS OF SUBMICRON PARTICLES
COLLOQ. INTERN. CENTRE NAT'L. RECH. SCI. (PARIS), 102, P 331-338 (1960)
CHARGING
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

170 COCHET, R.
USE OF COAXIAL CYLINDERS TO MEASURE THE MOBILITY OF UNIPOLAR GAS IONS
COMPT. REND., 240, P 2387, (1955)
EFFICIENCY
GASEOUS DISCHARGE
PARTICLE MIGRATION VELOCITY

171 COCHET, R.
THEORY OF THE CHARGE OF SUBMICRON PART. IN IONIZING ELEC. FIELDS SPEED OF PPTR. OF SUCH PARTICLES
COMPT. REND. 243, P 243-6, (JULY 16, 1956)
CHARGING
ELECTRIC FIELD
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

172 COE, E. L., JR.
A STATE OF THE ART REPORT ON INDUSTRIAL PRECIPITATOR CONTROL

EQUIPMENT
J. AIR POLLUTION CONTROL ASSOC. 17, P 724-7 (1967)
CONTROLS
EFFICIENCY
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE

173 COE, E. L., JR.
RECOVERY FROM SPARKING IN INDUSTRIAL ELECTROSTATIC PRECIPITATORS
CONF. RECORD OF 2ND INDUSTRY AND GEN. APP. GROUP, INST. ELEC. ELECTRON ENG. P 597-600, (1967)
CONTROLS

174 COHEN, L., ET AL.
MEASUREMENT OF THE RESISTIVITY OF POWER STATION FLUE DUST
J. SCI. INSTR. 40, P 72-5, (1963)
ASH
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING

175 COLE, W. H.
A FEASIBILITY STUDY OF THE APPLICATION OF ELECTROSTATIC PRECIPITATION TO AIRCRAFT GAS TURBINES
PAPER 65 - ENV - 17, PROC. 5TH ANNUAL NAT'L. CONF. ENVIRON. EFFECTS AIRCRAFT PROPULSION SYSTEMS, (1965)
AIR CLEANING

176 COLLIER, E. L., ET AL.
ELECTROGASDYNAMICS AND PRECIPITATION
IND. ENG. CHEM. 58, NO. 12, P 26-9, (1966)
CHARGING
GASEOUS DISCHARGE
GAS FLOW

177 COLLIER, RAYMOND L.
CUPOLA DUST SUPPRESSION
GRAY IRON FNDRS. SOC., INC. THE SOCIETY, CLEVELAND, OHIO, (DEC., 1949), P 27
CUPOLA
IRON AND STEEL

178 CONDORT, M.
APPLICATION OF ELECTROSTATIC PRECIPITATION TO CEMENT PLANTS
IND. THERM. , NO. 3, P 181-4, (1961)
CEMENT

179 COOPERMAN, P.
TURBULENT GAS FLOW AND ELECTROSTATIC PRECIPITATION
PAPER NO. CP60-2, AM. INST. ELEC. ENGRS. (FEB 1960)
EFFICIENCY
GAS FLOW
PARTICLE MIGRATION VELOCITY
RE-ENTRAINMENT

180 COOPERMAN, P.

SPONTANEOUS IONIZATION OF GASES AT HIGH TEMPERATURES
PAPER NO. CP63-173, INST. ELECTRIC. ELECTRON. ENGRS.,(1963)
CHARGING
GASEOUS DISCHARGE
TEMPERATURE EFFECT

181 COOPERMAN, P.
BOUNDARY-LAYER EFFECTS IN ELECTROSTATIC PRECIPITATION
PAPER NO. 66-124, AIR POLLUTION CONTROL ASSOC. 59TH ANNUAL MEETING, SAN FRANCISCO, CALIF. (JUNE,1966)
EFFICIENCY
GAS FLOW
PARTICLE MIGRATION VELOCITY
RE-ENTRAINMENT

182 COOPERMAN, P.
EDDY DIFFUSION AND PARTICLE EROSION IN ELECTROSTATIC PRECIPITATION
PAPER NO. 65-132, AIR POLLUTION CONTROL ASSOC., (1965)
EFFICIENCY
GAS FLOW
PARTICLE MIGRATION VELOCITY
RE-ENTRAINMENT

183 COOPERMAN, P.
A NEW TECH. FOR THE MEASUREMENT OF CORONA FIELD STRENGTH AND CURRENT DENS. IN ELEC. PPTR.
TRANS. AM. INST. ELEC. ENGRS. I, (COMM. ELECT.) 75, P 64-7, (1956)
ELECTRIC FIELD
GASEOUS DISCHARGE

184 COOPERMAN, P.
A NEW FORMULA FOR THE EFFICIENCY OF ELECTROSTATIC PRECIPITATORS
PAPER 69-4, AIR POLLUTION CONTROL ASSOC. (1969)
EFFICIENCY
GAS FLOW
PARTICLE MIGRATION VELOCITY

185 COOPERMAN, P.
DUST SPACE CHARGE IN ELECTRICAL PRECIPITATION
INST. ELECTRIC ELECTRON ENGRS. TRANS. (COMM. ELECTRON) 82, P 324-6 (JULY, 1963)
CHARGING
ELECTRIC FIELD
GASEOUS DISCHARGE

186 COOPERMAN, P.
POSITIVE POLARITY OPERATION OF ELECTRICAL PRECIPITATORS
INST. ELECTRIC ELECTRON ENGRS. TRANS. (COMM. ELECTRON) 83, P 792-4, (NOV., 1964)
BACK CORONA, SEE ALSO RESISTIVITY
CHARGING
COLLECTING ELECTRODES
DISCHARGE ELECTRODE
ELECTRIC FIELD

GASEOUS DISCHARGE

187 COOPERMAN, P.
THEORY OF SPACE-CHARGE LIMITED CURRENTS WITH APPLICATION TO ELECTROSTATIC PRECIPITATION
TRANS. AM. INST. ELEC. ENGRS. (COMM. ELECTRON) 79, PART 1, P 47-50, (1960)
CHARGING
ELECTRIC FIELD
GASEOUS DISCHARGE

188 COOPER, H. G.
ELECTRO DETARRING
GAS J. 288, P 108-09, 113-14, (OCT. 10, 1956)
COKE OVENS, SEE ALSO IRON AND STEEL
MANUFACTURED GAS
TAR

189 COOPER, R. L., ET AL.
ALLEVIATION OF AIR POLLUTION IN THE COKING INDUSTRY
INTERN. CLEAN AIR CONG. (LONDON) PROC. (PART 1) PAPER V/1, 1966 PP 117-9
COKE OVENS, SEE ALSO IRON AND STEEL

190 COOPER, S. R., ET AL.
CUTTING CHEMICAL ASH LOSSES IN A KRAFT RECOVERY SYSTEM
PAPER TRADE JOURNAL 151, P 58, (MAR. 27, 1967)
TEMPERATURE EFFECT
PULP AND PAPER

191 COPCUTT, V. W.
NEW PRECIPITATOR DESIGN CAN HANDLE ANY GAS FLOW
COMBUSTION 35, 46-8, DEC. 1963
GAS FLOW

192 COSBY, W. T.
THE IMPACT OF OXYGEN ON GAS CLEANING IN THE STEEL INDUSTRY
IRON STEEL 36, P 632-7, (DEC. 18, 1963)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
ELECTRIC ARC FURNACE
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

193 COSBY, W. T., ET AL.
COST AND PERFORMANCE OF FILTRATION AND SEPARATION EQUIPMENT - DUST FILTERS AND COLLECTORS
FILTRATION SEPARATION 5, P 252-5, (MAY-JUNE, 1968)
ECONOMICS

194 COTHAM, R. L.
ELECTROSTATIC PRECIPITATION OF SULFURIC ACID MISTS
PROC. CLEAN AIR CONF., UNIV. N. S. WALES, (1962)
EFFICIENCY
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

195 COTTRELL, F. G.
PROBLEMS IN SMOKE, FUME, AND DUST ABATEMENT
REPRINTED FROM SMITHSONIAN REPORT FOR 1913, P 653-85, PUB. 2307, GOV. PRINTING OFF., WASH., D. C., (1914)
HISTORY

196 COTTRELL, F. G.
DUST PRECIPITATION BY ELECTROSTATIC MEANS
MET. CHEM. ENG. 10, P 172-4, (1912)
CEMENT
COPPER, SEE ALSO NONFERROUS METALS
LEAD, SEE ALSO NONFERROUS METALS

197 COTTRELL, F. G.
ELECTRICAL FUME PRECIPITATION
BULL. AM. INST. MINING ENG. 67, P 667-80, (JULY, 1912)-TRANS. AM. INST. MIN. ENG. 43, P 512-20, 755-62, (FEB., 1912)
CEMENT
HISTORY
NONFERROUS METALS
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

198 COTTRELL, F. G.
ELECTRICAL PRECIPITATION
PROC. AM. INST. ELEC. ENG. 34, P 625-34 (1915) TRANS. AM. INST. ELEC. ENG. 34, P 387-96 (1915)
HISTORY

199 COTTRELL, F. G.
THE ELECTRICAL PRECIPITATION OF SUSPENDED PARTICLES FROM SMELTER FURNACES
J. IND. ENG. CHEM. 3, P 542-50, (AUG., 1911) ENG. NEWS 66, P 495-8, (OCT., 1911)
COPPER, SEE ALSO NONFERROUS METALS
HISTORY
LEAD, SEE ALSO NONFERROUS METALS
NONFERROUS METALS
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

200 COULTER, R. S.
SMOKE, DUST, FUMES CLOSELY CONTROLLED IN ELEC. FURNACES - BETHLEHEM PACIFIC COAST STEEL CORP.
IRON AGE 173, P 107-10, (JAN. 14, 1954)
CONDITIONING
ELECTRIC ARC FURNACE
IRON AND STEEL

201 COUTALLER, J., ET AL.
IMPROVEMENT IN ELECTROSTATIC PRECIPITATION BY SO3 INJECTION
POLLUTION ATMOS. (PARIS) 9, NO. 33, P 9-15, (JAN.-MAR., 1967)
CONDITIONING
EFFICIENCY
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

202 COWEN, P.S., ED.

CUPOLA EMISSION CONTROL
GRAY AND DUCTILE IRON FOUNDERS' SOCIETY
CUPOLA
IRON AND STEEL

203 CRABAUGH, H. R., ET AL.
DUST AND FUMES FROM GRAY IRON CUPOLAS-HOW THEY ARE CONTROLLED IN LOS ANGELES COUNTY
PROC. AIR POLL. CONT. ASSOC. P 125-30, (1954), AIR REPAIR 4, P 125-30, (1954)
CUPOLA
IRON AND STEEL

204 CRAWSHAW, C. J.
RATE OF DUST EMISSION FROM A PRECIPITATOR - EFFECT OF CHANGES IN THE ASH CONTENT
ENGINEER 215, P 1149-54, (JUNE 28, 1963)
ASH
COAL-FIRED BOILERS
EFFICIENCY
POWER PLANT

205 CREE, K. W.
COTTRELL ELECTRICAL PRECIPITATION AS APPLIED TO MFG. GAS INDUSTRY
AM. GAS J. 162, P 27-30, (MARCH, 1945)
COKE OVENS, SEE ALSO IRON AND STEEL
MANUFACTURED GAS

206 CUFFE, S. T.
CATALYST REGENERATION
AIR POLL. ENG. MAN., J. A. DANIELSON, ED., U. S. PUBLIC HEALTH SERVICE PUBL. NO. 999-AP-40, P 642-52, (1967)
AMMONIA SEE ALSO CONDITIONING
CATALYTIC PROCESSES, SEE ALSO PETROLEUM REFINING
SULFUR OXIDES, SEE ALSO CONDITIONING

207 CUFFE, S. T., ET AL.
AIR POLLUTANT EMISSIONS FROM COAL FIRED POWER PLANTS, REPORT NO. 1
JAPCA 14, P 353-62, (SEPT., 1964)
ASH
COAL-FIRED BOILERS
POWER PLANT
SULFUR OXIDES, SEE ALSO CONDITIONING

208 CUFFE, S. T., ET AL.
EMISSIONS FROM COAL-FIRED POWER PLANTS
U. S. PUBLIC HEALTH SERV. PUBL. NO. 999-AP-35, (1967)
ASH
COAL-FIRED BOILERS
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
EFFICIENCY
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

209 CUFFE, S. T., ET AL.

AIR POLLUTANT EMISSIONS FROM COAL-FIRED PPLANTS, REPT 2
J. AIR POLLUTION CONTROL ASSOC. 15 (2) 59-64, FEB. 1965
AEROSOL SAMPLERS & ANALYZERS
ASH
COAL-FIRED BOILERS
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES
POWER PLANT

210 CUTRESS, K. A., ET AL.
THE INFLUENCE OF GAS VEL AND PART SIZE ON THE PERFORMANCE OF FLAT COLL ELECTRODES IN CROYDON B PILOT ESP
CENTRAL ELEC RES LABS REPT NO. 743 (NOV. 12, 1957)
GAS FLOW
PARTICLE CHARACTERISTICS

211 DAGAN, B. N.
CLEANING OF OPEN HEARTH WASTE GASES BY KAISER STEEL CORP.,CALIF.
AM. INST. MIN. MET. ENGRS., IRON & STEEL DIV O. H. COMM.,
37, P 72-8, (1954)
GAS FLOW
TEMPERATURE EFFECT
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
PARTICLE CHARACTERISTICS
PILOT PLANT
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

212 DAKIN, T.W., ET AL.
CORONA MEASUREMENT AND INTERPRETATION
TRANS. AM. INST. ELEC. ENGRS. PT. 1, 76, NO. 33, P 1059-65 (DEC 1957)
GASEOUS DISCHARGE

213 DALLAVALLE, J. M.
DUST COLLECTOR COSTS
CHEM. ENG. 60, P 177-83, (NOV., 1953)
ECONOMICS

214 DALMON, J., ET AL.
EXPERIMENTAL INVESTIGATIONS INTO THE PERFORMANCE OF ELEC. PPTR. FOR (PULVERIZED FUEL) POWER STATIONS
COLLOQ. INTERN. CENTRE NATL. RECH. SCI. (PARIS) NO. 102
P 363-399, (1961)
ASH
COAL-FIRED BOILERS
COLLECTING ELECTRODES
GAS FLOW
TEMPERATURE EFFECT
PARTICLE CHARACTERISTICS
POWER PLANT
RAPPING AND VIBRATING

215 DALMON, J., ET AL.
INVESTIGATIONS INTO THE FORCES REQUIRED TO DISLODGE PRECIPITATED DUST FROM AN ELECTRODE
CERL LAB REPORT NO. 844, FEB. 1959

RAPPING AND VIBRATING

216 DARBY, K.
SINGLE-STAGE ELECTROSTATIC PRECIPITATOR
INST. ELEC. ENGRS. COLLOQ. ON ELECTROSTATIC PPTR. (FEB., 1965)
CHARGING
COLLECTING ELECTRODES
CONDITIONING
DISCHARGE ELECTRODE
EFFICIENCY
GASEOUS DISCHARGE
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RESISTIVITY, SEE ALSO BACK CORONA

217 DARBY, K., ET AL.
CONDITIONING OF FLUE GASES OF BOILER PLANTS FOR IMPROVING DUST SEPARATION RATE OF ELECTRIC FILTERS
STAUB 26, P 464-8, (NOV., 1966) STAUB (ENGL. TRANS.) 26, P 12+, (NOV., 1966)
ASH
BACK CORONA, SEE ALSO RESISTIVITY
CHARGING
COAL-FIRED BOILERS
CONDITIONING
EFFICIENCY
PARTICLE MIGRATION VELOCITY
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING

218 DARBY, K., ET AL.
ELECTROSTATIC AND FABRIC GAS CLEANERS
POWER WKS. ENG. 62, NO. 731, P 33-41, (MAY, 1967)
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
ECONOMICS
EFFICIENCY
GASEOUS DISCHARGE
TEMPERATURE EFFECT

219 DAVIDSON, D. W.
ELECTROSTATIC TAR PRECIPITATION
GAS REV. 1, P 370-2, (1947)
TAR

220 DEDLOW, R. P.
MAINTENANCE AND SAFETY OF ELECTROSTATIC PRECIPITATORS
MINERALS PROCESSING 10 (8) 8 (1969)
MAINTENANCE
SAFETY

221 DEHNE, W., ET AL.
POSSIBILITIES OF DUST REMOVAL FROM BOTTOM BLOWN BASIC BESSEMER CONVERTER
STAHL EISEN 82, P 762-71, (JUNE: 1962)
BESSEMER CONVERTER
IRON AND STEEL

PILOT PLANT

222 DELANGE, J.C.
EVALUATING DUST ARRESTING EQUIPMENT ON LARGE COAL-FIRED STEAM GENERATORS
JAPCA 18, P 95-97, (FEB., 1968)
AEROSOL SAMPLERS & ANALYZERS
ASH
COAL-FIRED BOILERS

223 DENISOV, V.F., ET AL.
IGNITION OF ELEMENTAL SULFUR IN A WET ELECTROFILTER DURING OXYGEN FLASH SMELTING OF COPPER-ZINC CONCENTRATES
SB. NAUCHN. TR., GOS.NAUCH.-ISSLED. INST. TSVET METAL 24, P 97-103 (1966)
CONTROLS
GASEOUS DISCHARGE
SAFETY

224 DEUTSCH, W.
CHARGING OF PARTICLES SUSPENDED IN THE CORONA DISCHARGE
ANN. PHYSIK 4, P 823-6, (1930)
CHARGING
GASEOUS DISCHARGE

225 DEUTSCH, W.
DENSITY DISTRIBUTION OF UNIPOLAR ION CURRENTS
ANN. PHYSIK 16, P 588-612, (1933)
ELECTRIC FIELD
GASEOUS DISCHARGE

226 DEUTSCH, W.
EFFECT OF THE ELECTRIC WIND IN ELECTRICAL GAS PURIFICATION
ANN. PHYSIK 9, P 249-64, (1931)
EFFICIENCY
ELECTRIC WIND
PARTICLE MIGRATION VELOCITY

227 DEUTSCH, W.
ELECTRICAL GAS PURIFICATION
Z. TECH. PHYSIK 6, NO. 9, P 423-37, (1925)
CHARGING
EFFICIENCY
ELECTRIC FIELD
GASEOUS DISCHARGE
PARTICLE MIGRATION VELOCITY

228 DEUTSCH, W.
ELECTRICAL PRECIPITATION OF METAL-BEARING DUST FROM FACTORY GASES
METALL ERZ 24, P 356-64, (AUG., 1927)
IRON AND STEEL
NONFERROUS METALS

229 DEUTSCH, W.
ELECTRICAL PPTR. OF METAL-CONTAINING DUSTS FROM INDUSTRIAL GASES

Z. METALLKUNDE 20, P 25-7, (JAN., 1928)
NONFERROUS METALS

230 DEUTSCH, W.
MOTION AND CHARGE OF ELECTROSTATIC CARRIERS IN A CYLINDRICAL CONDENSER
ANN. PHYSIK 68, P 335-44, (1922)
CHARGING
ELECTRIC FIELD
GASEOUS DISCHARGE

231 DEUTSCH, W.
POINT DISCHARGE AND ELECTRIC WIND
ANN. PHYSIK 76, P 729-36, (1925)
ELECTRIC FIELD
ELECTRIC WIND
GASEOUS DISCHARGE

232 DEUTSCH, W.
PURIFICATION OF GAS BY IONIZATION BY COLLISION
Z. TECH. PHYSIK. 7, NO. 12, P 623-30, (1926)
CHARGING
COAL-FIRED BOILERS
GASEOUS DISCHARGE
IRON AND STEEL

233 DEUTSCH, W.
THE CLEANING OF GASES BY IMPULSE IONIZATION
Z. TECH. PHYSIK. 7, P 623-30, (1926)
CHARGING
GASEOUS DISCHARGE

234 DEUTSCH, W.
THE CORONA DISCHARGE IN ELECTROFILTRATION
PHYSIK Z. 34, P 448-53, (1933)
ELECTRIC FIELD
GASEOUS DISCHARGE

235 DEUTSCH, W.
TOWNSEND DISCHARGES IN DENSE CLOUDS IN THE PRESENCE OF SPACE CHARGES
ANN. PHYSIK 10, P 847-86, (1931)
GASEOUS DISCHARGE

236 DICKINSON, W.A., ET AL.
WASTE GAS CLEANING SYSTEM AT SPARROWS POINT PLANT'S NO. 4 OPEN HEARTH
AM. INST. MIN. MET. ENG. PROC. OPEN HEARTH CONF, 47 P 214-32 (1964)
DUST DISPOSAL
GAS FLOW
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

237 DICKINSON, W. A., ET AL.
OXYGEN LANCING MEANS OPEN-HEARTH WASTE-GAS CLEANING SYSTEMS
PART 1, ELECTROSTATIC PRECIPITATORS

J. MET. 17, P 261-6, (MARCH, 1965)
CONTROLS
DUST DISPOSAL
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
RAPPING AND VIBRATING

238 DOHERTY, R. E.
CURRENT STATUS AND FUTURE PROSPECTS - CEMENT MILL AIR POLLUTION CONTROL
NATIONAL CONF. AIR POLLUTION PROC., WASH. D.C., P 242-9, (1966)
PHS PUBL. 1649
CEMENT

239 DOMANSKI, I., ET AL.
DESIGN AND OPERATION OF WET ELECTROSTATIC DUST PRECIPITATORS
GOSPODARKA PALIWAMI I ENERGIA, NO. 1, P 15-16, 25-27 (1965)
BLAST FURNACE, SEE ALSO IRON AND STEEL
COLLECTING ELECTRODES
WET PRECIPITATORS

240 DONNELLY, W.
ENGLISH ELECTRIC SYSTEM OF ELECTRICAL PRECIPITATION
ENGLISH ELEC. J. 7, P 49-54, (JUNE, 1934)
ELECTRICAL ENERGIZATION
TAR

241 DOUGLASS, D. A., ET AL.
SPARKOVER WITH MIXTURES OF HIGH AND LOW RESISTIVITY PARTICLES ON THE ANODE IN NEGATIVE CORONA
CONF. RECORD OF 2ND INDUSTRY AND GEN. APPLICATIONS GROUP, INST. ELEC. ELECTRON ENGRS. P 585-96 (1967)
COLLECTING ELECTRODES
DISCHARGE ELECTRODE
EFFICIENCY
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE
RESISTIVITY, SEE ALSO BACK CORONA

242 DOYLE, A. W.
DETERMINING PHYSICAL PROPERTIES OF AEROSOLS
ENGINEERING SEMINAR ON ELECTROSTATIC PRECIPITATION, PENN. ST. UNIV. (1955)
AEROSOL SAMPLERS & ANALYZERS

243 DREHER, J.
THE ELECTRIC PURIFICATION OF BLAST-FURNACE GAS, LURGI SYSTEM AT THE BLAST-FURNACE WORKS AT LUBECK
STAHL EISEN 51, P 377-88 (1931)
BLAST FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL

244 DROGIN, I.
CARBON BLACK, CHEM COMM INFORM REPORT NO. 9
JAPCA 18, P 216-228 (APR. 1968)

AGGLOMERATION
CARBON BLACK, SEE ALSO CHEMICAL PROCESSES
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.

245 DRONSEK, M. G., ET AL.
DUST CONTROL FOR A HOT-BLAST CUPOLA BY MEANS OF A DRY ELECTROFILTER
GIESSEREI 50, P 181-7 (APRIL, 1963), J. BRIT CAST IRON RES. ASSOC. 11, NO. 4, P 570 (JULY, 1963)
CUPOLA
ECONOMICS
EFFICIENCY
IRON AND STEEL

246 DRYSZ, P., ET AL.
GUIDELINES FOR THE SELECTION OF UNITS FEEDING ELECTRIC FILTERS
OCHRONA POWIETRZA (WARSAW) 4, P 14-19 (1967)
CONTROLS

247 DUBOIS, E.
ELECTROSTATIC PRECIPITATOR WITH NEW TYPE COMPONENTS
BRENNSTOFF-WÄRME-KRAFT 19, P 418-50, (1967)
COLLECTING ELECTRODES
DISCHARGE ELECTRODE
EFFICIENCY
GAS FLOW
RAPPING AND VIBRATING

248 DUPUY, J.
GENERAL STUDY OF IONIZED FIELDS
COMPT. REND. 244, P 1737 (1957)
ELECTRIC FIELD
GASEOUS DISCHARGE

249 DUPUY, J.
THE DETERMINATION OF VOLTAGE-CURRENT RELATIONS IN SIMPLE IONIZED SYSTEMS
COMPT. REND. 242, P 2309-12, (1956)
ELECTRIC FIELD
GASEOUS DISCHARGE

250 DUPUY, J.
DETERMINING THE IONIZING FIELD IN SEVERAL SIMPLE SYSTEMS
COMPT. REND. 242, P 1140-3, (1956)
ELECTRIC FIELD

251 DVIRKA, M., ET AL.
ANOTHER LOOK AT EUROPEAN INCINERATION PRACTICES
PUBLIC WORKS 98, P 99-100, (JULY, 1967)
ASH
INCINERATION
POWER PLANT

252 DYCK, A. W. J.
IS YOUR ELECTROSTATIC PRECIPITATOR OPERATING AT MAXIMUM EFFICIENCY

AM. PAPER IND. 48, P 63-4, (JAN., 1966)
EFFICIENCY
GAS FLOW

253 DZOANH, N. T.
SUPPRESSION OF COUNTER EMISSION IN COMPRESSED AIR, APP. TO HIGH VOLTAGE GENERATORS AND ELECTROFILTERS
COMPT. REND. 250, P 1001-3 (FEB 8, 1960)
BACK CORONA, SEE ALSO RESISTIVITY
EFFICIENCY
PRESSURE EFFECT
RESISTIVITY, SEE ALSO BACK CORONA

254 D'ANDRADE, M. J.
THE SELEC. AND APP. OF ELEC. PPTRS. TO OXYGEN LANCED OPEN HEARTH FURN. (1963)
SECT. HEAD, FUEL AND UTILITIES ENG. HAMILTON WORKS - THE STEEL CO. OF CANADA, LTD.
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
CONDITIONING
GAS FLOW
TEMPERATURE EFFECT
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
PARTICLE MIGRATION VELOCITY
RESISTIVITY, SEE ALSO BACK CORONA

255 EATON, J. B.
MAINTAINING CLEAN PIPELINES BY ELEC. PPTR.
PAPER PRES. AT AM. GAS ASSOC. OPER. SECT. TRANS. CONF., NEW ORLEANS, LA. (1969)
PRESSURE EFFECT
METHANE

256 EBERHARDT, H., ET AL.
EXPERIMENTAL SETUP FOR DEVELOPING AN ELEC. PPTR.
GIESSEREI 49, NO. 6, P 143-44, (1962)
IRON AND STEEL
PARTICLE CHARACTERISTICS
PILOT PLANT

257 EBERHARDT, H., ET AL.
TRIAL INSTAL. OF NEWLY DEV. ELEC. DUST COLL. USING ENDLESS BELT OF SMALL, TIGHTLY COILED SPRINGS
GIESSEREI 49, WITHIN P 125-49, (MARCH, 1962)
CUPOLA
PARTICLE CHARACTERISTICS

258 EDMISTEN, N. G., ET AL.
A SYSTEMATIC PROCEDURE FOR DETERMINING THE COST OF CONTROLLING PARTICULATE EMISSIONS FROM IND. SOURCES
PAPER 69-103, AIR POLLUTION CONTROL ASSOC. (1969)
ECONOMICS

259 EDOUARD, L.
MEASUREMENT OF DUST CONCENTRATIONS IN GAS AT ENTRANCE OF STACKS

OF CREIL THERMAL POWER PLANT
GENIE CIVIL 138, P 270-6, (JUNE 15, 1961)
AEROSOL SAMPLERS & ANALYZERS
ASH
EFFICIENCY
POWER PLANT

260 EDWARDS, R. A.
D. C. POWER SUPPLIES FOR HIGH EFFICIENCY ELECTRO-PRECIPITATORS
INST. ELEC. ENGRS. COLLOQ. ON ELECTROSTATIC PPTR. (FEB., 1965)
CONTROLS
ELECTRICAL ENERGIZATION

261 EHNERT, W.
THE BEHAVIOR OF NITRIC ACID IN ELECTROSTATIC GAS PURIFICATION
BRENNST. CHEM. 47, P 273-4, (SEPT., 1966)
COKE OVENS, SEE ALSO IRON AND STEEL

262 EICHBORN, J. L., ET AL.
PROGRESS IN RESEARCH ON DUST CONTROL AND ELECTRIC GAS PURIFICATION
VDI ZEIT 97, P 799-800 (AUG., 1955)
CATALYTIC PROCESSES, SEE ALSO PETROLEUM REFINING
COAL-FIRED BOILERS
CUPOLA
IRON AND STEEL
PETROLEUM REFINING
PHOSPHOROUS, SEE ALSO CHEMICAL PROCESSES
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES
ZINC, SEE ALSO NONFERROUS METALS

263 EISHOLD, H. G.
A MEASURING INSTRUMENT FOR DETERMINING THE RESISTIVITY OF DUST
STAUB 26, P 11-14 (1966), STAUB (ENGL. TRANS) 26, P 148 (JAN., 1966)
CONDITIONING
RESISTIVITY, SEE ALSO BACK CORONA

264 EISHOLD, H. G.
ELECTRIC RESISTIVITY OF DUST IN ELECTROSTATIC PRECIPITATOR
ARCH. EISENHUETTENWESEN 32, P 221-4 (APRIL, 1961)
BLAST FURNACE, SEE ALSO IRON AND STEEL
CUPOLA
IRON AND STEEL
RESISTIVITY, SEE ALSO BACK CORONA

265 ELLIOTT, A. C., ET AL.
METALLURGICAL DUST COLLECTION IN THE OPEN HEARTH AND THE SINTER PLANT
CAN. MINING METAL BULL. 55, P 724-32 (1962)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
TEMPERATURE EFFECT
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
RESISTIVITY, SEE ALSO BACK CORONA

SINTERING MACHINES. SEE ALSO IRON AND STEEL

266 ELLIOTT, A. C., ET AL.
COLLECTION OF METALLURGICAL FUMES FROM OXYGEN LANCED OPEN HEARTH FURNACES
J. METALS 18, P 743-7 (JUNE, 1966) J. AIR POLL. CONT. ASSOC. 14, P 401-6, (OCT., 1964)
EFFICIENCY
IRON AND STEEL
OPEN HEARTH FURNACE. SEE ALSO IRON AND STEEL

267 ELLSWORTH, R. D. ET AL.
THE CONTROL OF EFFLUENTS FROM MUNICIPAL INCINERATORS
J. AIR POLLUTION CONTROL ASSO. 7, 43-46, 1957
ASH
EFFICIENCY
INCINERATION

268 ENGELBRECHT, H. L.
ELECTROSTATIC PRECIPITATORS IN THERMAL POWER STATIONS WHICH USE LOW GRADE COAL
AIR ENG. 8, NO. 8, P 20-5 (1966) PROC. AMER. POWER CONF. 28, P 516. (1966)
ASH
COAL-FIRED BOILERS
COLLECTING ELECTRODES
CONDITIONING
DISCHARGE ELECTRODE
GAS FLOW
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
POWER PLANT
RADIOACTIVE
RESISTIVITY. SEE ALSO BACK CORONA
SULFUR OXIDES. SEE ALSO CONDITIONING

269 ERTL, D. W.
ELECTROSTATIC GAS CLEANING, I
S. AFRICAN MECH. ENG. 16, P 159-68 (1967)
BLAST FURNACE. SEE ALSO IRON AND STEEL
CEMENT
CHEMICAL PROCESSES
COAL-FIRED BOILERS
COLLECTING ELECTRODES
CONDITIONING
DISCHARGE ELECTRODE
PARTICLE MIGRATION VELOCITY
RAPPING AND VIBRATING
RESISTIVITY. SEE ALSO BACK CORONA
SULFUR OXIDES. SEE ALSO CONDITIONING

270 ERTL, D. W.
ELECTROSTATIC GAS CLEANING, II
S. AFRICAN MECH. ENGR. 17, P 13-20 (1967)
CEMENT
COAL-FIRED BOILERS

CONDITIONING
EFFICIENCY
GAS FLOW
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RAPPING AND VIBRATING
SULFUR OXIDES, SEE ALSO CONDITIONING

271 ERTL, D.
ELECTROSTATIC PRECIPITATION
STAUB 21, NO. 9, P 390-1, (1961)
IRON AND STEEL
NONFERROUS METALS
PULP AND PAPER
POWER PLANT
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

272 ERTL, D., ET AL.
AUTOMATIC VOLTAGE REGULATION IN ELECTRO-FILTERS
ENERGIE 9, NO. 1, P 4-9, (1957)
CONTROLS
ELECTRICAL ENERGIZATION

273 ERTL, D., ET AL.
THE PRESENT POSITION IN THE TECHNOLOGY OF DUST REMOVAL
STAUB 21, NO. 9, P 390-402 (1961)
CHEMICAL PROCESSES
COAL-FIRED BOILERS
IRON AND STEEL
PULP AND PAPER

274 ESSER, K.
DESIGN SPECIFICATIONS FOR DUST COLLECTORS
STAUB 25, P 42-5 (1965), STAUB 25, P 2-5 (FEB., 1965)
(ENGL. TRANS.)
ASH
COAL-FIRED BOILERS
COAL PROCESSING
EFFICIENCY
LIME
PETROLEUM REFINING
WET PRECIPITATORS

275 ESSER, K.
OPERATION AND MAINTENANCE OF ELECTRIC DUST COLLECTORS
STAUB 26, P 152-4 (APRIL, 1966), STAUB (ENG. TRANS.)
26, P 13+, (APRIL, 1966)
DUST DISPOSAL
MAINTENANCE

276 ETTINGER, H. J., ET AL.
EVALUATION OF PARTICLE SIZING AND AEROSOL SAMPLING TECHNIQUES
AM. IND. HEALTH ASSOC. J. 26, P 17-25 (JAN., 1965)
AEROSOL SAMPLERS & ANALYZERS
PARTICLE CHARACTERISTICS

277 FAITH, L. E., ET AL.

PARTICLE PRECIPITATION BY SPACE-CHARGE IN TUBULAR FLOW
IND. ENG. CHEM. FUNDAMENTALS 6, P 519-26 (1967)
CHARGING
EFFICIENCY
GAS FLOW
PARTICLE CHARACTERISTICS

278 FARR, J. W., ET AL.
POWER SUPPLIES AND CONTROL FOR ELECTROSTATIC PRECIPITATORS
PAPER NO. CP 57-88, AM. INST. ELEC. ENGRS. (1957)
CONTROLS
ELECTRICAL ENERGIZATION

279 FEES, K.
EFFICIENCY OF DUST COLLECTORS IN POWER STATIONS
STAUB 22, P 149-54 (1962)
ASH
COAL-FIRED BOILERS
EFFICIENCY
GAS FLOW

280 FELICI, N.J.
RECENT ADVANCES IN THE ANALYSIS OF D-C IONISED ELECTRIC FIELDS
DIRECT CURRENT 8, NO.'S 9 AND 10, PUBL BY DIRECT CURRENT LTD, LONDON, ENGLAND
ELECTRIC FIELD
GASEOUS DISCHARGE

281 FELICI, N. J.
FORCES AND CHARGES OF SMALL OBJECTS IN CONTACT WITH AN ELECTRODE SUBJECT TO AN ELECTRIC FIELD
REV. GEN. ELEC. 75, P 1145-60, (OCT., 1966)
CHARGING
ELECTRIC FIELD
PARTICLE MIGRATION VELOCITY

282 FELICI, N. J.
CONTEMPORARY ELECTROSTATICS-2, IONIZATION, CHARGING, AND INSULATION
CONTEMPORARY PHYSICS 5 NO. 6, P 419 (AUG. 1964)
ASH
CHARGING
COAL-FIRED BOILERS
ELECTRICAL ENERGIZATION

283 FERNANDES, J. H.
INCINERATOR AIR POLLUTION CONTROL
AM. SOC. MECH. ENGRS. NATL. INCINERATOR CONF. (MAY, 1968)
ECONOMICS
EFFICIENCY
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
INCINERATION

284 FERNANDES, J. H., ET AL.
BOILER EMISSIONS AND THEIR CONTROL
INT. SYMP ON AIR POLLUTION CONTROL, MEXICO CITY, (APR 1966)
ASH

COAL-FIRED BOILERS
ECONOMICS
PARTICLE CHARACTERISTICS
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

285 FERRARI, RENZO
EXPERIENCES IN DEVELOPING AN EFFECTIVE POLLUTION CONTROL SYSTEM FOR A SUBMERGED ARC FERROALLOY FURN OPERATION
J. METALS 20 (4) 95-104, APR. 1968
CORROSION
ECONOMICS
IRON AND STEEL
MAINTENANCE
PARTICLE CHARACTERISTICS
WET PRECIPITATORS

286 FIFE, J. A. & BOYER, R. H.,JR
WHAT PRICE INCINERATION AIR POLLUTION CONTROL
PROC. NATL. INCINERATOR CONF., AMER. SOC. MECH. ENGRS., P 89-96 (1966)
ECONOMICS
TAR

287 FINNEY, JAMES A.
RESISTIVITY - WHAT IT IS, WHAT IT DOES, WHAT CAN BE DONE ABOUT IT
AEROTEC INDUSTRIES REVIEW P 3-6 (1967)
BACK CORONA, SEE ALSO RESISTIVITY CONDITIONING
RESISTIVITY, SEE ALSO BACK CORONA

288 FINNEY, J. A., JR.
SELECTING PRECIPITATORS
POWER ENG. 72, P 26-30, (DEC., 1968)
ECONOMICS
GAS FLOW
RESISTIVITY, SEE ALSO BACK CORONA

289 FIRST, M. W., ET AL.
REDUCTION OF EMISSIONS FROM A RECOVERY BOILER
TAPPI 43, P SUP. 182A-185A (JUNE, 1960)
CHEMICAL PROCESSES
CORROSION
PULP AND PAPER

290 FISCHER, R. E.
PROGRESS IN THE PURIFICATION OF WASTE GASES IN METALLURGICAL INDUSTRIES
CHEM. ING. TECH. 27, P 11-12, (1955)
IRON AND STEEL
NONFERROUS METALS

291 FISHER, L.H.
MECHANISM OF THE SPARK BREAKDOWN
ELEC. ENGRNG. P 613-619 (JULY 1950)
GASEOUS DISCHARGE

292 FLODIN, C. R., ET AL.
ENGINEERING DESIGN FACTORS IN DUST AND FUME RECOVERY SYSTEMS
JAPCA 8, P 39-44, (MAY, 1958)
ALUMINUM, SEE ALSO NONFERROUS METALS
CEMENT
CHEMICAL PROCESSES
COAL-FIRED BOILERS
IRON AND STEEL
NONFERROUS METALS
PULP AND PAPER
POWER PLANT

293 FLODIN, C. R., ET AL.
SOME FACTORS AFFECTING FLY-ASH COLLECTOR PERFORMANCE ON LARGE PULVERIZED FUEL FIRED BOILERS
J. AIR POLL. CONT. ASSOC. 5, P 27-32, (1955), AIR REPAIR 5, P 27-32 (1955)
ASH
COAL-FIRED BOILERS
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
EFFICIENCY
GAS FLOW
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

294 FLOSSMANN, R., ET AL.
PRECIPITATION OF BROWN COAL SMOKE USING A NEW ELECTROSTATIC METHOD
STAUB 23, NO. 10, P 443-51 (1963)
AGGLOMERATION
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
IRON AND STEEL
PILOT PLANT

295 FOORD, T.R.
SOME EXPERIMENTS ON POSITIVE POINT-TO-PLANE CORONA AND SPARK BREAKDOWN ON COMPRESSED GASES
PROC. INST. ELEC. ENGRS. PART 2, POWER ENGRNG 100 P 585-590 (1953)
GASEOUS DISCHARGE
PRESSURE EFFECT

296 FORREST, J. S., ET AL.
PRESENT PERFORMANCE AND SCOPE FOR IMPROVEMENT IN POWER STATION ELEC. PRECIPITATORS
SMOKELESS AIR 27, P 178 (1957), MECH. ENG. AND CLEAN AIR CONF., LONDON, (1957)
ASH
COAL-FIRED BOILERS
EFFICIENCY
POWER PLANT

297 FOSTER, E. O.
COLLECTION AND RECOVERY OF GOLD FROM ROASTER EXIT GASES AT GIANT

YELLOWKNIFE MINES, LTD.
CAN. MINING METAL. BULL. 56, P 469-75 (JUNE, 1963), TRANS. CAN. INST. MINING MET. 66, P 245 (1963)
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
GOLD, SEE ALSO NONFERROUS METALS
TEMPERATURE EFFECT
NONFERROUS METALS

298 FOSTER, W. W.
DEPOSITION OF UNIPOLAR CHARGED AEROSOL PARTICLES BY MUTUAL REPULSION
BRIT. J. APPL. PHYS. 10, P 206-13, (MAY, 1959)
CHARGING
PARTICLE CHARACTERISTICS

299 FOWLER, R. T., ET AL.
FACTORS AFFECTING THE SELECTION OF GAS CLEANING EQUIPMENT
PROC. CLEAN AIR CONF., UNIV. N.S. WALES, (1962), PAPER 26 21 P
PARTICLE CHARACTERISTICS

300 FRAAS, F., ET AL.
ELECTROSTATIC CHARGE STATISTICS
ELEC. ENG. 70, P 762, (SEPT., 1951)
CHARGING
ELECTRIC FIELD

301 FRANCK, S.
SPARK DISCHARGE IN AIR CONTAINING SUSPENDED PARTICLES
Z. PHYSIK 87, P 323-39, (JAN. 15, 1934)
GASEOUS DISCHARGE
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

302 FRANKS, W. R., ET AL.
ELECTRICAL PRECIPITATION OF SILICA DUST
TRANS. ROY. SOC. CAN. SECT 5, 27, P 141-7 (1933)
SILICA

303 FRASER, D. A.
THE COLLECTION OF SUBMICRON PARTICLES BY ELECTROSTATIC PPTR.
AM. IND. HYG. ASSOC. QUART. 17, P 75-79 (MARCH, 1956)
CATALYTIC PROCESSES, SEE ALSO PETROLEUM REFINING
CHARGING
EFFICIENCY
NONFERROUS METALS
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

304 FRAUENFELDER, A.
EXPERIENCE GAINED WITH A NEW SCRUBBER PRECIPITATOR COMBINATION
KRUPP TECH. REV. 22, P 125-6 (NOV., 1964)
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
IRON AND STEEL
PARTICLE CHARACTERISTICS

305 FRAUENFELDER, A., ET AL.
EXPERIENCE WITH ELECTRIC GAS CLEANING INSTALL. BEHIND SMALL BESSEMER CONVERTERS OF STEEL FOUNDRY
GIESSEREI 49, WITHIN P 125-49, (MARCH, 1962)
BESSEMER CONVERTER
FOUNDRIES
IRON AND STEEL

306 FRIEDLANDER, SHELDON K.,ET AL.
HANDBOOK ON AIR CLEANING PARTICULATE REMOVAL
U.S. ATOMIC ENERGY COMM., WASH. D.C., (SEPT. 1952), P 89
AIR CLEANING
RADIOACTIVE

307 FRIEDLANDER, S. K.
PRINCIPLES OF GAS-SOLIDS SEPARATION IN DRY SYSTEMS
CHEM. ENGR. PROG. SYMP.SER. 55, P 135-145 (1959)
CHARGING
CONDITIONING
EFFICIENCY
GASEOUS DISCHARGE
GAS FLOW
PARTICLE CHARACTERISTICS
RE-ENTRAINMENT
RESISTIVITY, SEE ALSO BACK CORONA

308 FRIEDLANDER, S. K., ET AL.
DEPOSITION OF SUSPENDED PARTICLES FROM TURBULENT GAS STREAMS
IND. ENG. CHEM. 49, P 1151-1156 (JUL 1959)
EFFICIENCY
PARTICLE MIGRATION VELOCITY

309 FUKUDA, S.
ON THE SPARKING VOLTAGE OF THE ELECTRICAL PRECIPITATOR
J. INST. ELEC. ENGRS. JAPAN, NO. 489, P 405-18 (APRIL, 1929)
BACK CORONA, SEE ALSO RESISTIVITY
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE
RESISTIVITY, SEE ALSO BACK CORONA

310 FUKUDA, S.
SPACE-CHARGE PHENOMENA IN ELECTRIC PRECIPITATORS
J. INST. ELEC. ENGRS. (JAPAN) 51, P 69-70 (1931)
CHARGING
GASEOUS DISCHARGE
TEMPERATURE EFFECT
PARTICLE CHARACTERISTICS

311 FUNKE, G.
DUST AND DUST COLLECTION PROBLEMS OF CEMENT SHAFT KILNS
ZEMENT-KALK-GIPS 13, P 137-44 (APRIL, 1960)
CEMENT
WET PRECIPITATORS

312 FUNKE, G.
ELECTRICAL DUST PRECIPITATION PLANTS

ZEMENT-KALK-GIPS 12, P 189-96 (MAY, 1959)
COLLECTING ELECTRODES
DISCHARGE ELECTRODE
EFFICIENCY
GAS FLOW

313 FUNKE, G.
ELECTROSTATIC DUST PRECIPITATOR IN CEMENT INDUSTRY
ZEMENT-KALK-GIPS 18, P 94-106 (MARCH, 1965)
CEMENT
CONDITIONING
EFFICIENCY

314 FUNKE, G., ET AL.
RESULTS OF DUST MEASUREMENTS ON CEMENT KILNS
ZEMENT-KALK-GIPS 20, NO. 4, P 146-51 (1967)
CEMENT
CONDITIONING
EFFICIENCY

315 FURUYA, A., ET AL.
THE MAGNITUDE OF CHARGE OF CONDUCTION PARTICLES MOVING IN AN AC FIELD
J. INST. ELEC. ENGRS. JAPAN 73, P 984-9 (SEPT., 1953)
CHARGING
ELECTRIC FIELD

316 GABBERT, W. L.
EQUIPMENT FOR THE COLL. OF FLY ASH DUST, SOOT, AND SMOKE FROM THE FLUE-FED INCINERATOR
PROC. AIR POLL. CONT. ASSOC. P 119-23, (1954) , AIR REPAIR 4, P 119-23, (1954)
ASH
INCINERATION

317 GALLAER, C. A.
ECONOMICS OF FLY ASH COLLECTION
A.P. SMOKE PREV. ASSOC. AM. (1951), P 48-49
ASH
COAL-FIRED BOILERS
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
ECONOMICS
EFFICIENCY

318 GARTRELL, F. E.
CONTROL OF AIR POLLUTION FROM LARGE THERMAL POWER STATIONS
REV. SOC. ROY. BELGE INGRS. IND., NO. 11, P 471-82 (1966)
ASH
COAL-FIRED BOILERS
CONDITIONING
POWER PLANT
SULFUR OXIDES, SEE ALSO CONDITIONING

319 GAUDETTE, P. R.
ELECTRICAL PRECIPITATORS IN AIR POLLUTION CONTROL

PROCESS INDUSTRIES WASTE CONF. 11TH , PURDUE UNIV. P 41-50 (1956)
CEMENT
IRON AND STEEL
PULP AND PAPER

320 GENSLER, W. G.
EXPERIMENTAL METHOD OF PARTICLE TRAJECTORY ANALYSIS IN ELECTROSTATIC PRECIPITATION
INST. ELEC. ELECTRON ENGRS. INDUS. AND GEN. APPL. GROUP 3RD CONF. REC., P 41-56 (SEPT., 1968)
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

321 GENSLER, W.
A STUDY OF INDIVIDUAL PARTICLE TRAJECTORIES IN ELECTROSTATIC PRECIPITATION
PH. D. THESIS, CARNEGIE INST. OF TECH., PITTSBURGH, PENN., (1968)
ELECTRIC FIELD
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

322 GEORGE, R. E., ET AL.
CONTROL OF CONTAMINANT EMISSION FROM FOSSIL FUEL-FIRED BOILERS
JAPCA 17, P 392-5, (JUNE, 1967)
ASH
COAL-FIRED BOILERS
OIL-FIRED BOILER
POWER PLANT

323 GERTH, G.
DUST TECHNOLOGY
VDI Z. 108, P 691-4 (1966) , VDI Z. 106, P 651-6 (1964)
VDI Z. 107, P 683-687 (1965)
AEROSOL SAMPLERS & ANALYZERS
ELECTRIC ARC FURNACE
RAPPING AND VIBRATING

324 GHUSHKOV, L. A., ET AL.
EFFICIENCY OF ELECTRIC FILTERS FOR PURIFICATION OF AIR FROM ASBESTOS DUST
VOPROSY GIGIENY TRUDA,PROF PATOL I TOKSIKD V PROM SVERDLOVSK OBLASTI SBORNIK (1955)P 73-79 REFERAT ZHUR KHIM (1957)
ASBESTOS

325 GILCHRIST, D. E.
AIR POLLUTION CONTROL EQUIPMENT FOR THE CUPOLA
TRANS. AM. FOUNDRYMEN'S SOC. 62, P 473-80, (1954)
CONDITIONING
CUPOLA
ECONOMICS
TEMPERATURE EFFECT
INCINERATION
PARTICLE CHARACTERISTICS

326 GILLI, P. V., ET AL.
MINIMIZING DUST PROBLEMS IN BOF SHOPS

IRON STEEL ENGR. 43, P 193-201, (SEPT., 1966)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
CONDITIONING
IRON AND STEEL

327 GILL, E. W. B., ET AL.
THE ELECTRIFICATION OF LIQUID DROPS
PROC. PHYS. SOC. (LONDON) 65B, P 546-51 (JULY, 1952)
CHARGING

328 GJERTSEN, I. A.
SELECTION OF SOOT SEPARATING EQUIPMENT FOR OIL-FIRED BOILERS
NORSK VVS 10, NO. 7/8, P 207-11, (1967)
OIL-FIRED BOILER

329 GLIKIN, D. S.
GAS CLEANING IN PLANTS OF THE ALUMINUM ELECTRODE, AND RARE-METALS INDUSTRIES
SBORNIK MATERIALOV PO PYLEULAVLIUANIYU TSVETNOI MET. (MOSCOW) 1957, P 202-213,REFERAT ZHUR,MET. 1958,ABSTR.20709
ALUMINUM, SEE ALSO NONFERROUS METALS
COAL PROCESSING
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
NONFERROUS METALS
TAR

330 GOGOLINSKI, H., ET AL.
THE ROLE OF THE RESISTIVITY OF DUST IN THE PROCESS OF ELEC. PPTR.
PRACA JMN, NO. 898, GLIWICE, P 21 (1962)
RESISTIVITY, SEE ALSO BACK CORONA

331 GOGOLINSKI, H., ET AL.
ANALYSIS OF THE OP. OF DRY ELEC. PPTRS. FOR DUST REMOVAL FROM CONVERTER AND STACK GASES IN COPPER SMELTING
PRACE JMN, NO. 762, GLIWICE, P 28 (1961)
COPPER, SEE ALSO NONFERROUS METALS

332 GOGOLINSKI, H., ET AL.
THE EFFECT OF SOME PROPERTIES OF DUST IN THE OP. OF ELEC. DUST PPTRS.
RUDY, MET. NIEZ. NO. 3, P 129-35 (1962)
PARTICLE CHARACTERISTICS

333 GOLDFIELD, J., ET AL.
LOW VOLTAGE ELECTROSTATIC PRECIPITATORS TO COLL. OIL MISTS FROM ROOFING FELT ASPHALT SATURATORS AND STILLS
AM. IND. HYG. ASSOC. J. 24, P 411-6; (1963)
ASPHALT
ECONOMICS
OIL FUME

334 GOODALE, T. C., ET AL.
REPRESENTATIVE SAMPLING OF DUST PARTICLES IN HIGH VELOCITY AIR STREAMS
PUBL. NO. USNRDL-343 (U22518) (MAY 1, 1952) NSA
AEROSOL SAMPLERS & ANALYZERS

335 GOOD, C. H.

THE FERRO-MANGANESE GAS CLEANING INSTALLATION AT DUQUESNE WORKS
PROC. AIR POLL. CONT. ASSOC. P 173-5, (1954) - AIR REPAIR 4,
P 173-5 (1955)
BLAST FURNACE, SEE ALSO IRON AND STEEL
CONDITIONING
DUST DISPOSAL
FERRO-MANGANESE
IRON AND STEEL

336 GOTTSCHLICH, C. F.
AIR POLLUTION, A . C. STERN, ED., ACADEMIC PRESS, NEW YORK,
2ND ED., 3, (1968), P 437-456
CHARGING
CONDITIONING
CONTROLS
EFFICIENCY
ELECTRICAL ENERGIZATION
GAS FLOW
PARTICLE MIGRATION VELOCITY
RE-ENTRAINMENT
RESISTIVITY, SEE ALSO BACK CORONA

337 GOTTSCHLICH, C. F.
REMOVAL OF PARTICULATE MATTER FROM GASEOUS WASTES
AMERICAN PETROLEUM INSTITUTE, NEW YORK, (1961)
BOOKS ON ESP, ALSO EXTENDED TREATMENT OF ESP

338 GOTZ, G. F., ET AL.
CURRENT-CONTROLLED TRANSDUCTORS FOR ESP'S
SIEMENS REV. 29, 406-10 (1962)
CONTROLS

339 GRANVILLE, R. A.
THE CAPITAL COSTS OF SOME WASTE-GAS CLEANING PLANTS FOR USE IN
IRON AND STEELWORKS
SPEC. REPT. NO. 61, IRON AND STEEL INST. (LONDON) P 23-30 (1958)
ECONOMICS
IRON AND STEEL

340 GRAUE, G., ET AL.
COLLECTING THE BROWN FUMES FROM OXYGEN STEELMAKING PROCESSES
STAUB 23 (11) P 485-490 (1963)
AGGLOMERATION
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
ECONOMICS
IRON AND STEEL
PILOT PLANT

341 GRAUE, G., ET AL.
COOLING AND DUST REMOVAL OF CONVERTER WASTE GASES
STAHLEISEN SONDERBER. NO. 6, P 33-6, (1964)
BESSEMER CONVERTER
IRON AND STEEL

342 GRAUE, G., ET AL.
A NEW PROCESS FOR REMOVAL OF DUST FROM BROWN SMOKE

STAUB 25, P 391-4 (OCT 1965)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
TEMPERATURE EFFECT
IRON AND STEEL

343 GRENIER, G.
PURIFICATION OF GAS RECOVERED FROM BLAST FURNACES AND STEEL PLANTS
MINES METALLURGIE NO. 3597, P 335-6 (JULY, 1965), NO. 3598 P 381-2 (SEPT., 1965)
BLAST FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL

344 GRINDLE, AUBREY J.
THE CUPOLA EMISSION PROBLEM AND ITS SOLUTION
APCA EAST CENTRAL SECTION SEMI-ANNUAL MEETING (1953), HARRISBURG, PA., P 19
CUPOLA
FOUNDRIES
TEMPERATURE EFFECT

345 GUCK, R. W.
THE NEGATIVE CORONA DISCHARGE IN A POINT-PLANE GAP
C. F. MULLER-VERLAG, (1955)
GASEOUS DISCHARGE

346 GUEPPNER, O.
NEW DEVEL. IN DUST COLL. TECH. 1. ELEC. PPTR. - TRENDS AND DEVEL. IN CLASSICAL ELEC. PPTR.
STAUB 23, NO. 11, P 478-85 (1963)
COLLECTING ELECTRODES
CONTROLS
DISCHARGE ELECTRODE
EFFICIENCY
GAS FLOW
RAPPING AND VIBRATING

347 GUNN, R.
ELECTRIFICATION OF AEROSOLS BY IONIC DIFFUSION
AM. J. PHYS. 25, P 542-6, (NOV., 1957)
CHARGING

348 GUNN, R.
THE STATISTICAL ELECTRIFICATION OF AEROSOLS BY IONIC DIFFUSION
J. COILLOID SCI. 10, P 107-19, (FEB., 1955)
CHARGING

349 GÜPNER, O.
TENDENCIES AND POSSIBILITIES IN THE DEVEL. OF THE CLASSICAL ELECTROSTATIC PRECIPITATOR
STAUB 23, P 478-85, (1963)
COLLECTING ELECTRODES
DISCHARGE ELECTRODE
EFFICIENCY
ELECTRICAL ENERGIZATION
GAS FLOW

RAPPING AND VIBRATING

350 GUSSMAN, R. A.
AEROSOL BEHAVIOR IN HIGH PRESSURE ENVIRONMENTS
REPT. NO. 1770, BOLT BERANEK AND NEWMAN, INC., CAMBRIDGE, MASS. (FEB. 1969)
AGGLOMERATION
CHARGING
GASEOUS DISCHARGE
GAS FLOW
PRESSURE EFFECT

351 GUTHMANN, KURT
REMOVAL OF DUST FROM BROWN FUMES IN OXYGEN-BLOWING STEELWORKS
NATIONAL SOCIETY FOR CLEAN AIR, LONDON, (OCT., 1959), P 62-4
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL

352 GUTHMANN, K.
THE DEVELOPMENT OF BLAST-FURNACE GAS CLEANING IN THE LAST TEN YEARS
STAHL EISEN 73, NO. 5, P 283-92, (1953)
BLAST FURNACE, SEE ALSO IRON AND STEEL
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
IRON AND STEEL
WET PRECIPITATORS

353 GUTHMANN, K.
CUPULA GAS CLEANING - BLAST FURNACE GAS
GIESSEREI 42, NO. 19, P 519-24, (1955)
BLAST FURNACE, SEE ALSO IRON AND STEEL
CUPOLA
IRON AND STEEL
PARTICLE CHARACTERISTICS
WET PRECIPITATORS

354 GUTHMANN, K.
THE PROBLEMS OF CLEAN AIR MAINTENANCE
RADEX RDSCH., NO. 1, P 3-30, (1958)
AEROSOL SAMPLERS & ANALYZERS
FOUNDRIES
IRON AND STEEL
OIL-FIRED BOILER
PARTICLE CHARACTERISTICS
SULFUR OXIDES, SEE ALSO CONDITIONING

355 GUTHMANN, K.
THE PROBLEM OF CLEAN AIR MAINTENANCE WITH SPECIAL REFERENCE TO IRONWORKS, II
RADEX RDSCH., NO. 6, P 253-76, (1958)
IRON AND STEEL

356 GUTHMANN, K.
DUST PROBLEMS IN STEEL WORKS
STAHL EISEN 73, P 1512-22, (NOV. 5, 1953)

BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
BLAST FURNACE, SEE ALSO IRON AND STEEL
BESSEMER CONVERTER
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
IRON AND STEEL
PARTICLE CHARACTERISTICS

357 GUTHMANN, K.
EMISSION OF DUST AND GASES IN IRON WORKS AND IRON FOUNDRIES
VDI BERICHTE NO. 53, P 46-50, (1961)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
BLAST FURNACE, SEE ALSO IRON AND STEEL
ELECTRIC ARC FURNACE
FOUNDRIES
SINTERING MACHINES, SEE ALSO IRON AND STEEL
WET PRECIPITATORS

358 GUTHMANN, K.
NEW DEV. IN DUST COLL. TECH. 1, ELEC. PPTR. INTRODUCTORY LECTURE
STAUB 23, NO. 11, P 476-8 (1963)
ALUMINUM, SEE ALSO NONFERROUS METALS
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
CEMENT
CHEMICAL PROCESSES
IRON AND STEEL
POWER PLANT

359 GUTHMANN, K.
OPERATION AND MAINTENANCE OF ELECTROSTATIC PRECIPITATORS
STAUB 26, NO. 4, P 150-2 (1966), STAUB (ENGL. TRANS.) 26, NO. 4, P 13+ (1966)
BLAST FURNACE, SEE ALSO IRON AND STEEL
CONDITIONING
EFFICIENCY
RESISTIVITY, SEE ALSO BACK CORONA
SAFETY

360 GUTHMANN, K.
THE IMPORTANCE AND USE OF ELECTRO-PRECIPITATORS IN THE IRON AND STEEL INDUSTRY
STAUB 21, P 398-402 (1961)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
BLAST FURNACE, SEE ALSO IRON AND STEEL
CUPOLA
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
WET PRECIPITATORS

361 GUTHMANN, K.
THE PROBLEM OF AIR POLLUTION WITH PARTICULAR REFERENCE TO IRON AND STEEL PLANTS
RADEX RUNDSCHAU NO. 7, P 323-47, (NOV., 1958)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
ELECTRIC ARC FURNACE
IRON AND STEEL

PHOSPHOROUS, SEE ALSO CHEMICAL PROCESSES

362 HAASE, H., ET AL.
EFFECT OF ELECTROSTATIC CHARGES ON BEHAVIOR OF DUST CONTROL SYSTEMS
CHEM. ING. TECH. 29, P 81-86 (DEC 1957)
CHARGING
AGGLOMERATION

363 HACZEWSKI, J.
ANALYSIS OF THE OPTIMAL OPERATING CONDITIONS FOR ELEC. PPTRS. IN TIN MINE SHAFTS
PRACA JMN, NO. 898, GLIWICE, P 21 (1962)
TIN, SEE ALSO NONFERROUS METALS
NONFERROUS METALS

364 HALL, H. J.
TECHNOLOGY OF GAS CLEANING, STATE OF THE ART
TRANS. N. Y. ACAD. SCI. SERIES II, 29, P 147-164 (1966)
EFFICIENCY
SULFUR OXIDES, SEE ALSO CONDITIONING

365 HALL, H. J.
HIGH-VOLTAGE RECTIFIER TUBE OPERATION IN INDUSTRIAL PRECIPITATION EQUIPMENT
CATH. PRESS 8, P 14-17, 26-27, (WINTER, 1950-51)
CONTROLS
ELECTRICAL ENERGIZATION

366 HALL, H. J.
AUTOMATIC VOLTAGE CONTROL SYSTEM FOR ELECTRICAL PRECIPITATORS
TRANS. AM. INST. ELEC. ENGRS. 73, PT. 1, (COMMUN. ELECTRON) P 124-7 (1954)
ASH
CHARGING
CONTROLS
EFFICIENCY
RESISTIVITY, SEE ALSO BACK CORONA

367 HALL, H. J.
TRENDS IN ELECTROSTATIC PRECIPITATION AND INDUSTRIAL GAS CLEANING
CHEM. ENG. PROGR. 59, P 67-72, (SEPT., 1963)
CONTROLS
EFFICIENCY
GAS FLOW
PARTICLE MIGRATION VELOCITY
RAPPING AND VIBRATING

368 HALL, H. J., ET AL.
APPLICATION OF ELECTROSTATIC PRECIPITATION TO CLEANING HIGH-PRESSURE PIPELINE NATURAL GAS
OIL GAS JOURNAL, (SEPT. 9, 1968)
PRESSURE EFFECT
OIL FUME

369 HALL, H. J., ET AL.

A MAGNETIC IMPULSE RAPPER SYSTEM FOR ELECTRICAL PRECIPITATORS
TRANS. AM. SOC. MECH. ENGRS. 77, P 11-17, (1955)
RAPPING AND VIBRATING

370 HAMMOND, W. F., ET AL.
IRON CASTING
AIR POLL. ENG. MAN., J. A. DANIELSON,ED.,PUB. HEALTH SERV. PUB. PHS-PUB-999-AP-40,GPO,P 258-70
CUPOLA
EFFICIENCY
ELECTRIC ARC FURNACE
IRON AND STEEL
PARTICLE CHARACTERISTICS

371 HAMMOND, W. F., ET AL.
STEEL-MFG. PROCESSES
AIR POLL. ENG. MAN., J.A. DANIELSON, ED.,PUB. HEALTH SERV. PUB. PHS-PUB-999-AP-40,GPO,P 241-57
EFFICIENCY
ELECTRIC ARC FURNACE
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
PARTICLE CHARACTERISTICS

372 HAMMOND, W. F., ET AL.
SECONDARY BRASS AND BRONZE MELTING PROCESSES
AIR POLL. ENG. MAN., J.A. DANIELSON,ED.,PUB. HEALTH SERV. PUB. PUB-999-AP-40, GPO, P 270-84
NONFERROUS METALS
PARTICLE CHARACTERISTICS

373 HAMMOND, W. F., ET AL.
SECONDARY ALUMINUM-MELTING PROCESSES
AIR POLL. ENG. MAN.,J. A. DANIELSON,ED.,PUB. HEALTH SERV. PUB. PUB-999-AP-40, GPO, P 284-92 (1967)
ALUMINUM, SEE ALSO NONFERROUS METALS
NONFERROUS METALS

374 HAMM, H.
DUST CONTROL PROBLEMS OF GYPSUM PLANTS
ZEMENT-KALK-GIPS 18, P 143-4, (MARCH, 1965)
GYPSUM
SULFUR OXIDES, SEE ALSO CONDITIONING

375 HAND, C. E.
SOME ASPECTS OF COTTRELL PRECIPITATOR OPERATION IN THE KRAFT INDUSTRY
PULP PAPER MAGAZINE CANADA 50, P 103-6 (JUNE,1949), PAPER TRADE J. 129, P 35-7 (NOV., 1949)
CONTROLS
CORROSION
DISCHARGE ELECTRODE
EFFICIENCY
PULP AND PAPER
RAPPING AND VIBRATING

376 HANLON, F. A., ET AL.

POWER STATION DUST PRECIPITATION
SOUTH AFRICAN ENGR. ELEC. REV. 35, P 27, (DEC., 1944)
ASH
COAL-FIRED BOILERS
POWER PLANT

377 HANSEN, G. A.
ODOR AND FALLOUT CONTROL IN A KRAFT PULP MILL
JOURNAL OF THE AIR POLL. CONT. ASSOC. 12, NO. 9, (1962)
P 409-413, 436
PULP AND PAPER

378 HANSON, E.
HIGH-VOLTAGE RECTIFIERS IN IRON AND STEEL INDUSTRY
METROPOLITAN-VICKERS GAZ. 29, P 293-7 (NOV., 1958)
IRON AND STEEL

379 HANSSON, H. H.
ELECTROFILTER FOR SEPARATION OF TAR FROM GAS
INGENIOREN (ELEKTROTEKY) 56, NO. 6, P E9-E11 (1947), CHIMIE
INDUSTRIE 58, P 145 (1947)
TAR

380 HARDING, C. I., ET AL.
FUTURE TRENDS IN AIR POLLUTION CONTROL IN THE KRAFT PULPING INDUSTRY
TAPPI 49, NO. 8, P 61A-67A (1966)
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
PULP AND PAPER

381 HARGROVE, J. H. D., ET AL.
RECOVERY OF FUME AND DUST FROM METALLURGICAL GASES AT TRAIL, BRITISH
COLUMBIA
CAN. MIN. BUL. 52,P 359-65 (1959),TRANS. INST. MIN. MET. 62,P 180-5
(1959) CAN. MIN. METAL. BUL. 52,P 366-70 (1959)
COPPER, SEE ALSO NONFERROUS METALS
LEAD, SEE ALSO NONFERROUS METALS
NONFERROUS METALS
OIL FUME
SULFUR OXIDES, SEE ALSO CONDITIONING
ZINC, SEE ALSO NONFERROUS METALS

382 HARRIS, R. D.
350-TON PRECIPITATORS ASSEMBLED ON SITE, THEN ROLLED INTO PLACE
POWER ENG. 70, P 60-1 (SEPT., 1966)
COAL-FIRED BOILERS
GAS FLOW
POWER PLANT

383 HASHIMOTO, K.
GENERAL THEORY OF ELECTRICAL METHODS FOR DUST COLLECTION
CLEAN AIR (TOKYO) 4, NO. 3, P 1-8 (1966)
CHARGING
EFFICIENCY
PARTICLE CHARACTERISTICS

384 HASHIMOTO, K.

INTRODUCTION OF ELECTRIC DUST COLLECTING METHOD
JAPAN AIR CLEANING ASSOC. (TOKYO) 4 NO. 3, P 2-8 (1966)
CHARGING
EFFICIENCY
GASEOUS DISCHARGE
PARTICLE MIGRATION VELOCITY

385 HAYASHI, I.
STANDARDS ON ELECTROSTATIC AIR CLEANERS
JAPAN AIR CLEANING ASSOC. (TOKYO) 4 (1) PP 44-6, 1966
AIR CLEANING

386 HEDGES, D. A.
MODIFICATION TO EXISTING TUBULAR ESP'S TO INCREASE THEIR DESIGN PERFORMANCE
COLLOQUIUM ON ESP'S, INST. ELEC. ENGRS., (LONDON) 1965
COLLECTING ELECTRODES
CONTROLS
DISCHARGE ELECTRODE
EFFICIENCY
PILOT PLANT

387 HEINRICH, D. O.
ELECTRIC GAS PURIFICATION, PRINCIPLES, MECHANISM AND EXPERIENCES I
BRENNSTOFF-WÄRME-KRAFT (BWK),7, NO. 8, P 346-50 (AUG 1955)
CHARGING
ELECTRIC FIELD
PARTICLE MIGRATION VELOCITY

388 HEINRICH, D. O.
ELECTRIC GAS PURIFICATION, FUNDAMENTAL PRINCIPLES, MECHANISM AND EXPERIENCES II
BRENNSTOFF-WÄRME-KRAFT 7, NO. 9, P 389-94, (SEP 1955)
EFFICIENCY
PARTICLE MIGRATION VELOCITY
RESISTIVITY, SEE ALSO BACK CORONA

389 HEINRICH, D. O.
ARRANGEMENT OF HIGH VOLTAGE PLANT FOR ELECTROSTATIC PPTRS.
STAUB 24(4) P 131-134 (1964)
CONTROLS
EFFICIENCY
ELECTRICAL ENERGIZATION

390 HEINRICH, D. O.
CLEANING THE COLLECTING ELECTRODES OF ELECTRO-PRECIPITATORS
STAUB 22, P 360-4 (1962)
RAPPING AND VIBRATING

391 HEINRICH, D. O.
COMP. ANALY. OF INFLU. OF PART. SIZE, LEVEL OF SEPARA. GAS VELOC. AND POWER INPUT ON COLL. EFF. OF ELEC. PPTRS.
STAUB 23, P 83-91 (1963)
EFFICIENCY

GASEOUS DISCHARGE
GAS FLOW
PARTICLE CHARACTERISTICS

392 HEINRICH, D. O.
ELECTROSTATIC FILTERS FOR CLEANING WASTE GASES
TECH. ÜBERWACH. 11, P 2-13 (1959)
CEMENT
IRON AND STEEL
NONFERROUS METALS
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

393 HEINRICH, D. O.
LARGE-SCALE ELECTRO-PRECIPITATION. SOME NOTES ON THE THEORY AND PRACTICE
ELEC. REV. (LONDON) 155, P 804-6, (1954)
EFFICIENCY
GAS FLOW
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RAPPING AND VIBRATING
RE-ENTRAINMENT

394 HEINRICH, D. O.
STUDY ON ELECTRO-PRECIPITATOR PERFORMANCE IN RELATION TO PARTICLE SIZE DIST., LEVEL OF COLL. EFF. AND POWER INPUT
TRANS. INSTN. CHEM. ENGRS. 39, P 145-63 (1961)
CHARGING
EFFICIENCY
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

395 HEINRICH, D. O.
THE PROCESS OF ELECTRO-PRECIPITATION
ELECT. TIMES 127, P 967-71 (1955), 128, P 80-2 (1955)
CHARGING
EFFICIENCY
GASEOUS DISCHARGE
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RAPPING AND VIBRATING
RESISTIVITY, SEE ALSO BACK CORONA
TAR

396 HEINRICH, D. O.
THE SCIENCE AND ART OF ELECTRO-PRECIPITATION
ENG. BOILER HOUSE REV. 68, P 179-85 (1953)
CHARGING
COAL-FIRED BOILERS
CONDITIONING
EFFICIENCY
GASEOUS DISCHARGE
PARTICLE MIGRATION VELOCITY
RE-ENTRAINMENT
RESISTIVITY, SEE ALSO BACK CORONA

397 HEINRICH, D. O.

COLLOQUIUM ON ELEC. PPTR.
STAUB (ENGL. TRANSL) 25 (5) P 30-2 (1965)
AEROSOL SAMPLERS & ANALYZERS
ASH
BACK CORONA, SEE ALSO RESISTIVITY
CONDITIONING
EFFICIENCY
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING

398 HEINRICH, R. F.
DESIGN OF THE ELECTRODES OF THE WALTHER DUST FILTER
ENERGIE, NO. 5, P 174-6, (1955)
COLLECTING ELECTRODES
DISCHARGE ELECTRODE

399 HEINRICH, R. F.
STUDY OF THE SUITABILITY OF USING ELECTROFILTERS WITH PRECEDING OR FOLLOWING MECHANICAL COLLECTORS
MITT. VEREIN. GROSSKESSELBESITZER, NO. 68, P 322-32 (1960)
AGGLOMERATION
ASH
COAL-FIRED BOILERS
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
GASEOUS DISCHARGE
PARTICLE CHARACTERISTICS
POWER PLANT

400 HEINRICH, R. F.
SPECIAL APPLICATIONS OF ELECTRIC GAS PURIFICATION
VDI ZEIT. 98, P 1633-8, (1956)
CHEMICAL PROCESSES
CUPOLA
FOUNDRIES
IRON AND STEEL

401 HEINRICH, R. F., ET AL.
ELECTROPRECIPITATION
CHEM. ENG. PRAC. 3, P 484-534, CREINER & DAVIES, ED. CREINER AND BEARLEY, LONDON, 1957 & ACADEM. PRESS., N.Y., 1957
BOOKS ON ESP, ALSO EXTENDED TREATMENT OF ESP

402 HEINRICH, R. F., ET AL.
ELECTRO-PRECIPITATION IN THE CHEM. IND., A METHOD FOR THE RECOV. OF PROCESS FUMES AND DUST
BRIT. CHEM. ENG. 1, P 418-23 (1956)
BACK CORONA, SEE ALSO RESISTIVITY
EFFICIENCY
ELECTRIC FIELD
PARTICLE MIGRATION VELOCITY
PETROLEUM REFINING
RE-ENTRAINMENT

403 HEINRICH, R. F., ET AL.
ELECTRO-PRECIPITATORS IN THE CHEM. IND. - THEIR APPLICATIONS, COST AND OPERATION
BRIT. CHEM. ENG. 2, P 75-8 (1957)
ABSTRACT
CARBON BLACK, SEE ALSO CHEMICAL PROCESSES
CATALYTIC PROCESSES, SEE ALSO PETROLEUM REFINING
CEMENT
CHEMICAL PROCESSES
ECONOMICS
PULP AND PAPER
PETROLEUM REFINING
PHOSPHORIC ACID, SEE ALSO CHEMICAL PROCESSES
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

404 HENSCHEN, H. C.
WET VERSUS DRY GAS CLEANING IN THE STEEL INSTITUTE
J. AIR POLLUTION CONTROL ASSOC. 18, 5 (1968) PP 338-342
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
DUST DISPOSAL
ECONOMICS
IRON AND STEEL
WET PRECIPITATORS

405 HENSON, H. L.
ELECTROSTATIC PRECIPITATORS IN MANUFACTURE OF CEMENT
PROC. ENG. SEMINAR ON ELEC. PPTRS., PENN. STATE UNIV. (1957)
CEMENT

406 HESSELBROCK, H.
EFFECT OF CARBON AND OTHER CONDUCTING PARTICLES IN UNPURIFIED GAS ON SEPARATION EFFICIENCY OF ESP'S
ENERGIE 16, NO. 12, P 497-504 (1964)
ASH
COAL-FIRED BOILERS
EFFICIENCY
RESISTIVITY, SEE ALSO BACK CORONA

407 HESSELBROCK, H.
METHODS FOR IMPROVING SEPARATING EFFICIENCY OF ELECTROSTATIC PRECIPITATORS FOR BOILERS FIRED WITH LIGNITE
MITTEIL. VEREIN. GROSSKESSELBESITZER, NO. 77, P 77-83 (APRIL, 1962)
EFFICIENCY
GAS FLOW
LIGNITE

408 HESSELBROCK, H.
PROBLEMS OF ELECTROSTATIC DUST REMOVAL AND REQUIR. CONC. FURTHER TECHNICAL DEVELOPMENT
STAUB 25, P 402-9 (1965), STAUB (ENGL. TRANS.) 25, P 32-42 (1965)
BACK CORONA, SEE ALSO RESISTIVITY
GASEOUS DISCHARGE
GAS FLOW

PARTICLE MIGRATION VELOCITY
RESISTIVITY, SEE ALSO BACK CORONA

409 HEWITT, G. W.
CHARGING OF SMALL PARTICLES FOR ELECTROSTATIC PRECIPITATION
PAPER NO. CP 57-90, AM. INST. ELEC. ENGRS. (1957) TRANS. AM. INST. ELEC. ENGRS. 76II, P 300-6 (1957)
AEROSOL SAMPLERS & ANALYZERS
CHARGING
PARTICLE CHARACTERISTICS

410 HIGNETT, E.T.
THE RATE OF CHARGING OF FLY-ASH PARTICLES IN AN ESP
CERL LAB NOTE RD-L-N 118-65, NOV 1965
CHARGING

411 HIGNETT, E. T.
PARTICLE-CHARGE MAGNITUDES IN ELECTROSTATIC PRECIPITATION
PROC. INSTN. ELEC. ENGRS. 114, P 1325-8, (SEPT., 1967)
ASH
CHARGING
PARTICLE CHARACTERISTICS

412 HIGNETT, E. T.
PARTICLE CHARGING IN ELECTROSTATIC PRECIPITATION
INST. ELEC. ENGRS. COLLOQ ON ELECTROSTATIC PRECIPITATORS (1965)
CHARGING
EFFICIENCY
GAS FLOW
PARTICLE CHARACTERISTICS

413 HILDEBRAND, R. L.
AN INDICATING SYSTEM FOR HIGH-VOLTAGE POWER PACKS (IN ELECTRIC PRECIPITATORS)
ELECTRONICS 13, NO. 10, P 38, 71-4, (1940)
AIR CLEANING
CONTROLS
ELECTRICAL ENERGIZATION

414 HIPKIN, A. S.
CLEANING OF FUME FROM ARC FURNACES
AISI SPECIAL REPORT 61, P 108, (1958)
ELECTRIC ARC FURNACE

415 HIPP, N. E., ET AL.
DEVELOPMENTS IN BLAST FURNACE GAS CLEANING - GREAT LAKES STEEL CO.
IRON & STEEL ENGRS. YEARBOOK P 581-88 (1967)
BLAST FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL

416 HIRAMATSU, T., ET AL.
VIBRATION ANALYSIS OF ELECTROSTATIC PRECIPITATOR DISCHARGE WIRES
HITACHI REV. (TOKYO) 45, P 130-6 (1963)
RAPPING AND VIBRATING

417 HODGSON, J.
THE SELECTION OF INDUSTRIAL DUST COLLECTION EQUIPMENT
PROC. 32ND CLEAN AIR CONF., EASTBOURNE, ENGL. P 147-162, (1965)
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
ECONOMICS
EFFICIENCY
RESISTIVITY, SEE ALSO BACK CORONA

418 HODSON, P.
DEVELOPMENT OF PRECIPITATOR FOR OPERATION ON FLUE GAS AT HIGH TEMPERATURE
ENGINEERING SEMINAR ON ELECTROSTATIC PRECIPITATION, PENN. STATE UNIV. (1955)
ASH
COAL-FIRED BOILERS
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
ELECTRICAL ENERGIZATION
DUST DISPOSAL
TEMPERATURE EFFECT

419 HODSON, P.
USE OF 5-SPOT BLACKNESS TESTER AS RAPID METHOD OF DETER. PPTR. OPERATING CHARACTERISTICS
ENG. SEMINAR ON ELEC. PPTR., PENN. STATE UNIV. (1955)
AEROSOL SAMPLERS & ANALYZERS

420 HOFF, H.
PRINCIPLES OF TREATMENT OF FLUE GASES IN THE OXYGEN-BLAST PROCESS
STAHL EISEN 81, P 562-571 (1961)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL
SAFETY

421 HOLLAND, M., ET AL.
DIRECT FUME EXTRACTION FOR LARGE ARC FURNACES
FUME ARRESTMENT, SPECIAL REPORT 83, LONDON, WILLIAMS LEA AND CO. LTD., P 150-59, (1964)
CONDITIONING
CORROSION
ELECTRIC ARC FURNACE
GAS FLOW
IRON AND STEEL
PILOT PLANT
WET PRECIPITATORS

422 HOPWOOD, W.
THE POSITIVE STREAMER MECHANISM OF SPARK BREAKDOWN
PROC. PHYS. SOC. 62B, P 657-64, (1949)
GASEOUS DISCHARGE

423 HORNE, G. H.
ELECTRICAL PRECIPITATION
TRANS. AM. INST. ELEC. ENGRS. 34, P 405-20, (1915)
ASH
COAL-FIRED BOILERS

DUST DISPOSAL
TEMPERATURE EFFECT
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

424 HOWELL, A.H.
BREAKDOWN STUDIES IN COMPRESSED GASES
TRANS. AM. INST. ELEC. ENGRS. 58, P 203 DISC. 204-206 (1939)
GASEOUS DISCHARGE
PRESSURE EFFECT

425 HRADILOVA, G.
UTILIZATION OF SEMICONDUCTOR RECTIFIERS FOR THE VOLTAGE CONTROL ON ELECTROSTATIC SEPARATORS
BUL. EGU (CZECHOSLOVAKIA), NO. 2, P 42-5, (1966)
CONTROLS
ELECTRIC WIND
ELECTRICAL ENERGIZATION

426 HSIEH, J. J. C.
RESUSPENSION OF PARTICULATES FROM A SURFACE
PACIFIC NORTHWEST LAB ANN REPT (1966) TO USAFC 1, BIO SCI, THOMPSON AND SWEZEA ED, PUB NO BNWL-480,CFSTI (1967)
RE-ENTRAINMENT

427 HUGHES, J. M.
HYDRODYNAMICS OF A TWO-STAGE ELECTROSTATIC PRECIPITATOR ELEMENT
PAPER NO. 68-103, AIR POLLUTION CONTROL ASSOC., (1968)
AIR CLEANING
EFFICIENCY
ELECTRIC FIELD
GAS FLOW
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

428 HUNT, M., ET AL.
CONTROL OF DUST AND FUME EMISSIONS FROM AN INTEGRATED STEELWORKS
PROC. CLEAN AIR CONF., UNIV. N. S. WALES, (1962)
IRON AND STEEL

429 HYLSKY, E.
ELECTROSTATIC PRECIPITATION OF SUBMICRON ALUMINA PARTICLES
PUBL. NO. IDO-14527 (DEC. 6, 1960), NSA
EFFICIENCY
NONFERROUS METALS
PARTICLE CHARACTERISTICS
PILOT PLANT
RADIOACTIVE
WET PRECIPITATORS

430 IDEL'CHIK, I. E.
DESIGN OF THE GAS DUCTS OF THE ELECTRIC PPTRS. OF HIGH-CAPACITY BOILERS
TEPLOENERGETICA 11, P 61-5 (DEC., 1964)
ASH
COAL-FIRED BOILERS

EFFICIENCY
GAS FLOW

431 IDEL'CHIK, I. E.
GAS DISTRIBUTION EQUIPMENT FOR ELECTRIC PRECIPITATORS OF SULPHURIC ACID PLANTS
KHIM PROM., NO. 1, P 43-47 (1958)
GAS FLOW
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

432 IDEL'CHIK, I. E.
INVESTIGATION INTO GAS DISTRIBUTION IN HORIZONTAL ELEC. FILTERS OF STEAM POWER STATIONS
TEPLOENERGETIKA 4, P 76-80 (SEPT., 1957)
GAS FLOW
POWER PLANT

433 IDEL'CHIK, I. E.
STUDY OF GAS ADMISSION AND DISCHARGE SYSTEMS OF ELECTROSTATIC PRECIPITATORS
TEPLOENERGETIKA 7, P 39-42 (JULY, 1967), ENG. TRANSL. IN THERMAL ENG. NO. 7, P 51-5 (JULY, 1967)
GAS FLOW
POWER PLANT

434 IDEL'CHIK, I. E.
EXPERIMENTAL VERIFICATION OF THE THEORETICAL DISTRIBUTION OF GAS IN GAS-CLEANING EQUIPMENT
TEPLOENERG., AKAD. NAUK SSR, ENERG. INST. NO. 8, P 29-35 (1955)
GAS FLOW

435 IDEL'CHIK, I. E.
EXPERIMENTAL STUDIES IN GAS DISTRIBUTION
TEPLOENERG.,AKAD. NAUK SSR, ENERG. INST., NO. 3, P 34-9 (1956) NO. 5 P 53-7 (1956)
GAS FLOW

436 IDEL'CHIK, I. E.
DESIGNING FLUE GAS ADMISSION AND DISCHARGE SYSTEMS FOR THE ELECTROSTATIC PRECIPITATORS IN 300 MW UNITS
EFFICIENCY
GAS FLOW

437 INCULET, I. E., ET AL.
A TWO-STAGE CONCENTRIC GEOMETRY ELEC. PPTR. WITH ELECTRIFIED MEDIA
PAPER 69-2, AIR POLLUTION CONTROL ASSOC. (1969)
TWO-STAGE PRECIPITATORS

438 INOMATA, I.
WATER CONDITIONING OF FLUE GASES FOR ELECTRICAL PRECIPITATION
PROC. IMP. ACAD. TOKYO 9, P 506-9 (NOV., 1933)
CONDITIONING
COPPER, SEE ALSO NONFERROUS METALS
NONFERROUS METALS

439 INYUSHKIN, N. V., ET AL.

INFLUENCE OF GAS-FLOW CONDITIONS ON DUST COLLECTION IN AN ELECTRIC FIELD
SOVIET J. NON-FERROUS METALS (ENGL. TRANSL.), P 35, (1962)
COLLECTING ELECTRODES
DISCHARGE ELECTRODE
EFFICIENCY
GASEOUS DISCHARGE
GAS FLOW

440 INYUSHKIN, N. V., ET AL.
EFFECT OF THE CONDITIONS OF GAS FLOW ON DUST RECOVERY IN AN ELECTRIC FIELD
TSVETN. METAL 35, NO. 7, P 37-41 (1962), SOVIET J. NON-FERROUS MET. (ENG TRANS) 35, (1962)
EFFICIENCY
GAS FLOW

441 INYUSHKIN, N. V., ET AL.
DUST PPTR. FROM A TURBULENT GAS STREAM IN AN ELECTROSTATIC PPTR.
IZV. VUSSHIKH UCHEBN. ZAVEDENII KHIM. I KHIM TEKNOL 6, (6) P 1031-6 VYSSHYKH (1963)
EFFICIENCY
GAS FLOW
PARTICLE MIGRATION VELOCITY

442 ISAHAYA, F., ET AL.
SOME TECH. PROBLEMS FOR ELEC. PPTR. AND PROPERTIES OF INDUSTRIAL DUST
HITACHI REV. 17, NO. 2, P 40-5 (1968)
ASH
COAL-FIRED BOILERS
CONDITIONING
EFFICIENCY
OIL-FIRED BOILER
OIL FUME
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

443 ISAHAYA, H.
ANALYSIS OF CORONA FIELD INTENSITY DIST. BY STEEL BALL DROPPING METH. IN ELECTROSTATIC PRECIPITATORS
J. INST. ELEC. ENGRS. JAPAN 82, P 219-28 (FEB., 1962)
DISCHARGE ELECTRODE
ELECTRIC FIELD
GASEOUS DISCHARGE
WET PRECIPITATORS

444 ITKIN, G.M., ET AL.
ONE-ZONE ELECTROSTATIC FILTER FOR GAS PURIFICATION
METALLURG. 11, NO. 8, P 13-15 (1966)
EFFICIENCY
GAS FLOW

445 IVANOVA, A. M.
SUBSTITUTE FOR LEAD IN ELECTRIC FILTERS
J. CHEM. IND. (USSR) 18, NO. 6, P 30-1 (1941)

CORROSION

446 IWAMURA, E., ET AL.
ON THE USE OF AN ELECTROSTATIC PRECIPITATOR IN AN OPEN HEARTH FURNACE
TETSU-TO-HAGANE, 46, P 1175-7, (SEPT., 1960)
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL

447 IWASAKI, Z., ET AL.
RECENT ELECTROSTATIC PRECIPITATION FOR OPEN-HEARTH FURNACE USE
FUJI ELEC. J. (TOKYO) 35, P 1013-9, (1962)
TEMPERATURE EFFECT
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
RAPPING AND VIBRATING
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

448 JACKSON, A.
FUME CLEANING IN AJAX FURNACES
FUME ARRESTMENT, SPECIAL REPORT 83, LONDON, WILLIAMS LEA AND CO. LTD., P 61-64, (1964)
DUST DISPOSAL
ECONOMICS
TEMPERATURE EFFECT
IRON AND STEEL

449 JAFFREY, W. G.
EMISSION AND CONTROL OF FUME FROM OPEN HEARTH FURNACES
PROC. CONF. ATMOS. POLL. FROM STEEL FOUNDRY MELTING FURNACES BRIT. STEEL CASTINGS RES. ASSOC., P 5-11, (1960)
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL

450 JENNINGS, R. F.
BLAST FURNACE GAS CLEANING
J. IRON AND STEEL INST., NO. 3, P 305-25, (1950)
BLAST FURNACE, SEE ALSO IRON AND STEEL
EFFICIENCY
IRON AND STEEL

451 JENNY, P. J.
SMELTER FUME CONTROL
PROC. AIR POLLUTION CONTROL ASSOC. P 105-7, (1951)
IRON AND STEEL
NONFERROUS METALS

452 JEPSON, J.
ELECTROSTATIC PRECIPITATORS FOR REFORMED GAS
GAS J. 317, P 224-6 (FEB., 1964)
GAS FLOW
MANUFACTURED GAS
PETROLEUM REFINING
TAR
WET PRECIPITATORS

453 JESSNITZ, W.

COMPLETE REMOVAL OF DUST FROM VARIOUS TYPES OF SMOKE
WASSER LUFT BETRIEB 7, P 512-3 (1963)
ALUMINUM, SEE ALSO NONFERROUS METALS
IRON AND STEEL
LIGNITE
NONFERROUS METALS

454 JESSNITZ, W.
PURIFICATION OF FLUORINE AND DUST CONT. WASTE GAS FROM AN ALUMINUM PLANT
WASSER LUFT BETRIEB 6, P 169-72 (APRIL, 1962)
ALUMINUM, SEE ALSO NONFERROUS METALS

455 JESSNITZ, W.
THE SEPARATION OF THE FINEST PART. BY MEANS OF THE INDUSTRION-ELEKTRO-FILTER
KERAM. Z. 16, P 502-3 (1964)
PARTICLE CHARACTERISTICS
TWO-STAGE PRECIPITATORS

456 JESZNITZ, W.
ELECTRICAL FINE-FILTER
ERDOL U. KOHLE 8, P 493-496 (1955)
TWO-STAGE PRECIPITATORS

457 JOHNSON, C. H., JR.
PRECIPITATOR APPLICATIONS IN THE STEEL INDUSTRY
ELEC. PPTR. 1959-1960, ENG. PROC. P 37, P 122-136, (DEC.,1960) (ENG SEM. ON ELEC. PPTR. AT PENN. ST. UNIV. JUNE,1960)
IRON AND STEEL

458 JOHNSON, G. A., ET AL.
AIR POLLUTION PREVENTION AT A MODERN ZINC SMELTER
PROC. AIR POLLUTION CONTROL ASSOC. P 173-8 (1953) AIR REPAIR 3, P 173-8 (1954)
CONDITIONING
NONFERROUS METALS
ZINC, SEE ALSO NONFERROUS METALS

459 JONES, F.L., ET AL.
FAILURE OF PASCHEN'S LAW AND SPARK MECHANISM AT HIGH PRESSURE
PHYS. REV. 82, P 970-1 (1951)
GASEOUS DISCHARGE
PRESSURE EFFECT

460 JUDA, J.
THE PRECIPITATION OF DUST
2ND ED., WARSAW (1962)
BOOKS ON ESP, ALSO EXTENDED TREATMENT OF ESP

461 JUNKER, E.
ELECTROSTATIC PRECIPITATOR FOR EXHAUST GAS CLEANING AT THE PRESSURE OF DIE CASTING MACHINES
GIESSEREI 54, NO. 6, P 152-4, (1967)
MAINTENANCE

OIL FUME
SAFETY
TWO-STAGE PRECIPITATORS

462 KAISER, E. R.
PROSPECTS FOR REDUCING PARTICULATE EMISSIONS FROM LARGE INCINERATORS
J. AIR POLLUTION CONTROL ASSOC. 16 (6) 324, JUNE 1966
ECONOMICS
INCINERATION
TEMPERATURE EFFECT

463 KAKHANOVICK, T. M., ET AL.
OPERATION OF ELECTRIC PRECIPITATORS IN
A GYPSUM PLANT
STROITEL MATERIALY 5, NO. 6, P 28-30 (1959)
GYPSUM

464 KALASHNIKOV, S.
THE INFLUENCE OF FIELD STRENGTH AND TREAT. TIME ON THE PURIFICATION
OF GASES BY ELECTROFILTRATION
Z. TECH. PHYSIK. 14, P 267-70 (1933)
CHARGING
EFFICIENCY
ELECTRIC FIELD
GAS FLOW

465 KAMMERER, H. F.
WASTE INCINERATION PLANT WITH HEAT UTILIZATION IN STUTTGART
BRENNSTOFF-WÄERME-KRAFT 14, NO. 10, P 476-8 (1967)
ECONOMICS
INCINERATION

466 KANE, J. M.
EQUIPMENT FOR CUPOLA EMISSION CONTROL
TRANS. AM. FOUNDRYMEN'S SOC. 64, P 525-31 (1956)
CUPOLA
FOUNDRIES

467 KANE, J. M.
FOUNDRY AIR POLLUTION. A STATUS REPORT
FOUNDRY 96 NO. 11, P 50-5 (1968)
FOUNDRIES
IRON AND STEEL

468 KANE, J. M.
STATUS FORECAST FOR AIR POLLUTION CONTROL - 1972
AIR ENG. 9 (3) 33-4, 37, MARCH 1967
ASH
COAL-FIRED BOILERS
INCINERATION
INCINERATION
NONFERROUS METALS
POWER PLANT

469 KAPTSOV, N. A.
CORONA DISCHARGE AND ITS USE IN ELEC. PPTR.

GOSTEKHIZDAT, MOSCOW, (1947)
GASEOUS DISCHARGE

470 KARLSSON, H., ET AL.
NEW PRECIPITATOR CLEANS HOT GASES, IMPROVES PLANT PERFORMANCE
ELEC. LIGHT POWER 33, P 80-5 (FEB., 1955)
EFFICIENCY
TEMPERATURE EFFECT

471 KASSUHLKE, B.
APPLICATION OF TRANSDUCTORS TO ELECTROSTATIC
FILTER INSTALLATIONS
A.E.G. MITT. 49, P 570-6, (OCT.-NOV.,1959), ENG. TRANS. - A.E.G.
PROGR., NO. 1, P 113-8, (1960)
CONTROLS

472 KATABOSHI, H.
CURRENT-VOLTAGE CHARACTERISTICS OF ELEC. DUST PPTR.
USING SELENIUM RECTIFIER
RYUSAN 14, P 97-103 (1961)
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE

473 KATKOV, V. I.
THE COMMERCIAL USE OF ELECTROFILTERS USING GRAPHITE
TUBES
J. CHEM. IND. (USSR) 18, NO. 15-16, P 46-8 (1941)
CORROSION
MAINTENANCE

474 KATZ, J.
EFFECTIVE COLLECTION OF FLY ASH AT PULVERIZED COAL-FIRED PLANTS
JAPCA 15, P 528 (1965)
ASH
COAL-FIRED BOILERS
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
EFFICIENCY
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING

475 KATZ, J.
ELECTROSTATIC PRECIPITATOR PRIMER
IRON STEEL ENG. 41, P 124-30, (MAY, 1964)
COLLECTING ELECTRODES
CONDITIONING
DISCHARGE ELECTRODE
GASEOUS DISCHARGE
GAS FLOW
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

476 KAYLOR, F. B.
AIR POLLUTION ABATEMENT PROGRAM OF A CHEMICAL PROCESSING INDUSTRY
J. AIR POLLUTION CONTROL ASSOC. 15, 2 (1965)
AMMONIA SEE ALSO CONDITIONING
ASH

COAL-FIRED BOILERS
LIME

477 KEEFE, D., ET AL.
CHARGE EQUILIBRIUM IN AEROSOLS ACCORDING TO THE BOLTZMANN LAW
PROC. ROY. IRISH ACAD. 60A, NO. 4, P 27-45 (JULY, 1959)
CHARGING

478 KELTING, J.
ELECTRIC GAS PURIFICATION
TECHNIK 10, P 621-8, (OCT., 1955)
ASH
CEMENT
COAL PROCESSING
COLLECTING ELECTRODES
ELECTRICAL ENERGIZATION
PETROLEUM REFINING
RAPPING AND VIBRATING
TAR

479 KENNEDY, G. F.
US POWER-PLANT DESIGN TRENDS
PROC. INST. ELEC. ENGRS., (LONDON) 113 (1) JAN. 1966
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
EFFICIENCY

480 KERCHER, H.
FLUE GAS DUST REMOVAL
BRENNSTOFF-WÄRME-KRAFT 19 (1967) NO. 4, P 196-7
EFFICIENCY
ELECTRICAL ENERGIZATION
GAS FLOW
RAPPING AND VIBRATING
RESISTIVITY, SEE ALSO BACK CORONA

481 KERRIGAN, JAMES V., ET AL.
STUDIES ON SULFURIC ACID MIST DOWNWIND FROM A SULFURIC ACID MANUFACTURING PLANT
AIR POLL. CONTROL ASSOC. J. 15, NO. 7, P 316-319, (JULY, 1965)
AEROSOL SAMPLERS & ANALYZERS
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

482 KERRIGAN, J. V., ET AL.
COLL OF SULF ACID MIST IN THE PRES OF A HIGHR SULFR DIOX BCKGRD. COMP OF THE ELEC. PPTR, THE GREENBERG-SMITH IMPING ETC.
ANAL. CHEM. 32, P 1168-71 (1960)
AEROSOL SAMPLERS & ANALYZERS
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

483 KHALIFA, M. M., ET AL.
A LAB. STUDY OF THE EFFECTS OF WIND ON DC CORONA
INST. ELEC. ELECTRON ENGRS. TRANS. POWER APPARATUS SYST. VOL. PAS-86 P 290-7 (MARCH, 1967)
CARBON BLACK, SEE ALSO CHEMICAL PROCESSES
GAS FLOW

484 KHOMUTINNIKOV, P. S., ET AL.
PROPOSALS FOR GAS PURIFICATION IN STEEL PLANTS
STAL' IN ENGLISH (LONDON) P 529-33 (JULY, 1960)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
BLAST FURNACE, SEE ALSO IRON AND STEEL
COKE OVENS, SEE ALSO IRON AND STEEL
ECONOMICS
PRESSURE EFFECT
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

485 KIP, A.F.
ONSET STUDIES OF POSITIVE POINT-TO-PLANE CORONA IN AIR AT ATMOSPHERIC PRESSURE
PHYS. REV. 55, P 549-56 (MAR 1939)
GASEOUS DISCHARGE

486 KIRKWOOD, J. B.
ELECTROSTATIC PPTR. FOR THE COLLECTION OF FLY ASH FROM LARGE PULVERIZED FUEL-FIRED BOILERS
PROC. CLEAN AIR CONF., UNIV. NEW SOUTH WALES, 1962, 2, P14.1-14.14
ASH
COAL-FIRED BOILERS
CONDITIONING
PARTICLE MIGRATION VELOCITY
PILOT PLANT
POWER PLANT
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING

487 KIROV, N. Y.
EMISSIONS FROM LARGE MUNICIPAL INCINERATORS AND CONTROL OF AIR POLLUTION
CLEAN AIR 1 (2), SEPT. 1967, PP 19-25, 7 REFS
INCINERATION

488 KLEMPERER, H., ET AL.
DESIGN ASPECTS OF ELEC. PPTR. FOR COLL. OF SMALL SOLIDS AHEAD OF AIR HEATER
TRANS. AM. SOC. MECH. ENGRS. 78, P 317-26 (FEB., 1956)
AGGLOMERATION
ASH
COAL-FIRED BOILERS
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
CONTROLS
EFFICIENCY
ELECTRICAL ENERGIZATION
GAS FLOW
TEMPERATURE EFFECT
RAPPING AND VIBRATING

489 KLING, F. E.
DRY-HOT CLEANING OF BLAST FURNACE GAS, REVOLUTION IN GAS CLEANING
BLAST FURNACE STEEL PLANT 34, P 1257-64 (OCT., 1946)

BLAST FURNACE, SEE ALSO IRON AND STEEL
EFFICIENCY
WET PRECIPITATORS

490 KLOBOUK, B.
ELECTRIC ASH FILTERS IN THE THERMAL POWER STATION NHKG IN OSTRAVA-KUNCICE
ENERGETIKA (PRAGUE) 9, NO. 10, P 497-502, (1959)
ASH
COAL-FIRED BOILERS
EFFICIENCY
GAS FLOW
POWER PLANT

491 KLUGE, W., ET AL.
INFLUENCE OF ELEC. PPTR. OPERATION ON DUST EMISSION FROM BROWN COAL-FIRED BOILERS
ENERGIETECHNIK, 17, P 530-5 (DEC., 1967)
ASH
COAL-FIRED BOILERS

492 KNECHT, H., ET AL.
PERFORMANCE RESULTS ON PART. REMOVAL UPSTREAM OF AN AIRHEATER WHEN BURNING FUEL OIL
COMBUSTION 38, P 41, (JULY, 1966), PROC. AM. POWER CONF. 28, P 525+ (1966)
ASH
COAL-FIRED BOILERS
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
CONDITIONING
TEMPERATURE EFFECT
OIL-FIRED BOILER
PILOT PLANT
SULFUR OXIDES, SEE ALSO CONDITIONING

493 KOEGHN, W.
MODIFIED FORMULA FOR ELEC. PPTR. WITH POCKET ELECTRODES
STAUB 22, NO. 5, P 189-190 (1962)
EFFICIENCY
GAS FLOW
PARTICLE MIGRATION VELOCITY

494 KOGLIN, E.
FORMULAS FOR DRY ELECTRIC DUST PRECIPITATOR WITH POCKET ELECTRODES
STAUB 22, P 189-90 (MAY, 1962)
COLLECTING ELECTRODES
EFFICIENCY
GAS FLOW

495 KOGLIN, W.
ELECTROSTATIC PRECIPITATORS
BETH-HANDBUCH - STAUBTECHNIK, MASCHINENFABRIK BETH, G.M.B.H., LUBECK GERMANY, 2ND ED., (1964), P 170-218, ET PASSIM
BOOKS ON ESP, ALSO EXTENDED TREATMENT OF ESP

496 KOGLIN, W.

THE LOAD DEPENDENCE OF ELECTROSTATIC PRECIPITATORS
STAUB 21, P 212-215 (1961)
EFFICIENCY
GAS FLOW
PARTICLE MIGRATION VELOCITY

497 KOGLIN, W.
DUST REMOVAL BY ELECTROFILTERS
AUFBEREITUNGS-TECHNIK 5, P 580-605 (NOV., 1964)
AEROSOL SAMPLERS & ANALYZERS
ECONOMICS

498 KOGLIN, W.
LOAD CHARACTERISTICS OF ELECTRIC PRECIPITATOR DEVICES
STAUB 28, NO. 10, P 398-402 (OCT., 1968)
EFFICIENCY
GAS FLOW
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
WET PRECIPITATORS

499 KOGLIN, W.
SEPARATING EFF. OF ELEC. PPTRS. AS FUNCTION OF POWER INPUT AND OF PARTICLE SIZE DISTRIBUTION
AUFBEREITUNGS-TECHNIK 6, P 484-9 (AUG., 1965)
EFFICIENCY
ELECTRICAL ENERGIZATION
PARTICLE CHARACTERISTICS

500 KOGLIN, W., ET AL.
LOAD DEPENDENCE OF DRY ELECTROSTATIC PRECIPITATION PLANTS
STAUB 23, (6), P 300-304 (1963)
EFFICIENCY
GAS FLOW
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

501 KOHLER, W.
METHODS FOR THE ABATEMENT OF AIR POLLUTION CAUSED BY CEMENT PLANTS
PROC. INTERN. CLEAN AIR CONGR. (LONDON), PART 1, PAPER 1V/12, P 114-6, (1966), WASSERLUFT BETRIEB, 11, P 155, (1967)
CEMENT

502 KOLBE, F.
FINE CLEANING OF PRODUCER GAS BY ELECTROSTATIC PRECIPITATION
STAHL EISEN, 69 NO. 16, P 552-4, (1949)
TAR

503 KOLBE, F.
DRY LURGI ELECTRICAL PRECIPITATOR IN THE LD PROCESS
BERG - U. HUTTENMANNISCHE MANOTSHEFTE 104, P 26-31 (FEB. 1959)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
GAS FLOW
IRON AND STEEL
PARTICLE CHARACTERISTICS

PARTICLE MIGRATION VELOCITY

504 KOLLER, L.R.
ELECTROSTATIC PRECIPITATION, FUNDAMENTALS AND SIMPLE NOMOGRAPHIC METHOD FOR CALCULATING EFFICIENCY
GEN. ELEC. 48, P 13-5 (AUG 1945)
EFFICIENCY

505 KOLLER, L.R., ET AL.
NEGATIVE WIRE CORONA AT HIGH TEMPERATURE AND PRESSURE
J. APP. PHYS. 21, P 741-4 (1950)
GASEOUS DISCHARGE
PRESSURE EFFECT
TEMPERATURE EFFECT

506 KONIG, W.
THE BEHAVIOR OF DUST IN AN ELECTROFILTER
ENERGIE 18, P 199-207 (MAY 1966)
EFFICIENCY
GASEOUS DISCHARGE
GAS FLOW
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
PILOT PLANT
RESISTIVITY, SEE ALSO BACK CORONA

507 KORNEV, N.A., ET AL.
AUTOMATIC EXPLOSION PROTECTION OF ELECTRIC FILTERS
VESTN. TEKHN. I EKON. INFORM NAUCHN ISSLED. INST. TEKHN EKON. ISSLED GOS. KOM. SOV. MIN. SSSR PO KHIM 2, P 55-6 (1962)
CONTROLS
METHANE
SAFETY

508 KOSCHANY, E.M.
BASIC INVESTIGATIONS INTO PROBLEM OF CLEANING COLLECTING ELECTRODES OF ELECTROPRECIPITATORS
STAUB 28, NO. 7, P 266-70 (JULY 1968)
EFFICIENCY
RAPPING AND VIBRATING

509 KOSCHANY, E.M.
INVESTIGATIONS OF ELECTROPRECIPITATORS CARRIED OUT WITH IMPULSE VOLTAGES
STAUB 27, P 171-3 (APR. 1967) STAUB (ENGL. TRANSL.) 27, P 5+ (APR. 1967)
CHARGING
EFFICIENCY
ELECTRICAL ENERGIZATION
RESISTIVITY, SEE ALSO BACK CORONA

510 KOSTIN, V.N., ET AL.
THE EFFECT OF A CONSTANT MAGNETIC FIELD ON A STATIONARY CORONA DISCHARGE
SOVIET PHYS. TECH. PHYS. 9, NO. 7 P 968-72 (ENGL. TRANSL.) (JAN 1965)
GASEOUS DISCHARGE

511 KRAEMER, H.F.
PROPERTIES OF ELECTRICALLY CHARGED AEROSOLS
PUBL. NO. COO-1013 (MAR. 31, 1954) NSA
CHARGING
PARTICLE CHARACTERISTICS

512 KRAEMER, H.F., ET AL.
COLLECTION OF AEROSOL PARTICLES IN PRESENCE OF ELECTROSTATIC FIELDS
IND. ENG. CHEM. 47, P 2426-34 (1955) CORRECTION IN IND ENG CHEM 48, P 812 (1956) PUBL. NO. AECU-2972 (1954) NSA
CHARGING
COLLECTING ELECTRODES
EFFICIENCY
GAS FLOW
PARTICLE CHARACTERISTICS

513 KRAEMER, H. F., ET AL.
HOMOPOLAR ELECTRIFICATION OF AEROSOLS
TECH. REPT. 7 (SC-1003) U. OF ILL., ENG. EXPERIMENT STATION (SEPT. 30, 1952) P 39 P
CHARGING

514 KRAJEWSKI, A., ET AL.
THE EFFECT OF BURING CONDITIONS OF A PULVERIZED-COAL FIRED BOILER UPON THE EFFICIENCY OF AN ESP OPERATION
ENERGETYKA, NO. 1, P 10-16 (1967)
ASH
COAL-FIRED BOILERS
COLLECTING ELECTRODES
RESISTIVITY, SEE ALSO BACK CORONA

515 KREICHELT, T. E., ET AL.
ATMOSPHERIC EMISSIONS FROM THE MANU. OF PORTLAND CEMENT
PHS PUBL. NO. 999-AP-17, 47 P, (1967)
CEMENT

516 KRIKAU, F. G.
EFFECTIVE SOLIDS REMOVAL, BOF FLUE DUST, FOR POLLUTION CONTROL
PROC. AMER. POWER CONF., 28 P 727-31 (1966)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
IRON AND STEEL

517 KRUEGER, D.
GAS CLEANING IN IRON AND STEEL WORKS
BLAST FURN. STEEL PLANT 52, P 406-8 (MAY 1964)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
BLAST FURNACE, SEE ALSO IRON AND STEEL
COKE OVENS, SEE ALSO IRON AND STEEL
CUPOLA
IRON AND STEEL
PARTICLE CHARACTERISTICS
SINTERING MACHINES, SEE ALSO IRON AND STEEL

518 KRUTZSCH, J.
SUPERIMPOSING OF ALTERNATING ON DIRECT VOLTAGE FIELDS IN

ELECTRICAL GAS PURIFICATION
BRAUNKOHLENARCH NO. 32, P 1-71 (1931)
ASH
CEMENT
EFFICIENCY
ELECTRICAL ENERGIZATION
IRON AND STEEL
NONFERROUS METALS
RESISTIVITY. SEE ALSO BACK CORONA

519 KULESHOV, P. YA.
AERODYNAMICS OF THE ELECTROFILTER S-7-2
KOKS I KHIM 1959, NO. 4, P 38-42
GAS FLOW

520 KULYAKO, V. S.
CLEANING SINTER-LINE GASES WITH ELECTROSTATIC FILTERS
STAL' 26, NO. 10, P 961-3 (1966)
IRON AND STEEL
SINTERING MACHINES. SEE ALSO IRON AND STEEL

521 KUNKEL, W. B.
CHARGE DISTRIBUTION IN COARSE AEROSOLS AS A FUNCTION OF TIME
J. APPL. PHYS. 21, P 833-7 (AUG., 1950)
CHARGING
PARTICLE CHARACTERISTICS

522 KUNKEL, W.
GROWTH OF CHARGED PARTICLES IN CLOUDS
J. APPL. PHYS. 19, P 1053-5, (NOV., 1948)
CHARGING
PARTICLE CHARACTERISTICS

523 KUSCO, A.
A STUDY OF THE ELECTRICAL BEHAVIOR OF GASES AT HIGH PRESSURES
UNDATED PARTIAL THESIS FOR DEGREE OF DOCTOR OF SCIENCE,
MASS. INST. TECH.
GASEOUS DISCHARGE
PRESSURE EFFECT

524 LABBE, A. L.
ACID CONDITIONING OF METALLURGICAL SMOKE FOR COTTRELL PRECIPITATION
J. METALS 188, P 692-3 (TRANS.) (APRIL, 1950)
CONDITIONING
IRON AND STEEL
NONFERROUS METALS
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

525 LADENBURG, R.
INVEST INTO THE PHYS PROCES OF THE SO-CALLED ELEC GAS PURIF PROCES PART 1. ON THE MAX CHGE OF SUSPENDED PART
ANN. PHYSIK (5) 4, P 863-97, (1930) ENG. TRANS. PUBL. NO. TT-505
CHARGING

GASEOUS DISCHARGE
PARTICLE CHARACTERISTICS

526 LADENBURG, R.
SCIENTIFIC PRINCIPLES OF ELECTRICAL WASTE-GAS PURIFICATION
GESUNDH.-ING. 52, P 188-9 (1929), WASSER ABWASSER 26, P 190 (1929)
COAL-FIRED BOILERS
COAL PROCESSING
POWER PLANT

527 LADENBURG, R., ET AL.
PURIFICATION OF GASES BY CORONA DISCHARGE
ANN. PHYSIK. 4, P 863-97, (1930)
CHARGING
GASEOUS DISCHARGE
PARTICLE MIGRATION VELOCITY

528 LADENBURG, R., ET AL.
A STUDY OF THE PHY PROCESSES IN THE SO-CALLED ELEC PURIF OF GASES PART 2. THE ACTION OF THE ELEC WIND
ANN. PHYSIK (5) 6, P 581-621 (1930)
ELECTRIC WIND

529 LAGARIAS, J. S.
DISCHARGE ELECTRODES AND ELECTROSTATIC PRECIPITATORS
J. AIR POLLUTION CONTROL ASSOC. 10, P 271-4 (1960)
CORROSION
DISCHARGE ELECTRODE
EFFICIENCY
ELECTRIC FIELD
OZONE, SEE ALSO AIR CLEANING

530 LAGARIAS, J. S.
PREDICTING PERFORMANCE OF ELECTROSTATIC PRECIPITATORS
AIR POLL CONT ASSOC PAPER NO. 63-14 (1963), J. AIR POL. CONT ASSOC 13, P 595-9 (1963)
CHARGING
EFFICIENCY
GAS FLOW
PARTICLE MIGRATION VELOCITY
RAPPING AND VIBRATING

531 LAGARIAS, J. S.
FIELD-STRENGTH MEASUREMENTS IN PARALLEL-PLATE PPTRS.
TRANS. AM. INST. ELEC. ENGRS. (COMM. ELECTRON) 79, PART 1, P 427-33 (1959)
COLLECTING ELECTRODES
ELECTRIC FIELD
PARTICLE CHARACTERISTICS

532 LAKEY, J. R. A., ET AL.
ELECTRO-PRECIPITATION OF FLUE DUST
CHEM. AGE 72, P 943-4 (1955)
CHARGING
EFFICIENCY

GASEOUS DISCHARGE
TEMPERATURE EFFECT
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

533 LAKEY, J. R. A., ET AL.
RESEARCHES INTO FACTORS AFFECTING ELECTRO-PRECIPITATION
TRANS. INSTN. CHEM. ENGRS. 33, P 252-63 (1955)
COLLECTING ELECTRODES
CONDITIONING
DISCHARGE ELECTRODE
GASEOUS DISCHARGE
RE-ENTRAINMENT
RESISTIVITY, SEE ALSO BACK CORONA

534 LAKE, C. W.
USING SILICON RECTIFIERS IN ELECTROSTATIC PRECIPITATORS
IND. ELECTRON. ENG. MAINTENANCE (AUG., 1961)
ELECTRICAL ENERGIZATION

535 LAMBERT, W. H., ET AL.
CORREC. TIME MEASURES IN SEWARD STAT EQUIP AND OPERATION
PROC. AM. POWER CONF. 24, P 499-506, (1962)
ASH
COAL-FIRED BOILERS
EFFICIENCY
ELECTRICAL ENERGIZATION
GAS FLOW
POWER PLANT

536 LANDERS, W. S.
TRENDS IN STEAM STATION DESIGN AFFECTING AIR POLLUTION
ASME PUBL. NO. 66-PWR-1 (1966)
ASH
COAL-FIRED BOILERS
COAL PROCESSING
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
DUST DISPOSAL
POWER PLANT

537 LANDGRAF, G. E.
DEVELOPMENT OF INSTRUMENTS FOR MEASUREMENT OF AIR CLEANER EFFICIENCIES
ENGINEERING SEMINAR ON ELECTROSTATIC PRECIPITATION, PENN. STATE UNIV. (1955)
AEROSOL SAMPLERS & ANALYZERS
AIR CLEANING
EFFICIENCY

538 LANDOLT, P. E.
CEMENT IND LOOKS TOWARD BY-PRODUCT POTASH RECOV. COMP OF MULTICYCLONE COLL AND COTTRELL PPTRS.
CHEM. MET. ENG. 40, P 345-9 (JULY, 1933)
CEMENT
ECONOMICS

539 LANDRY, J. E., ET AL.

ADVANCES IN AIR POLLUTION CONTROL IN THE PULP AND PAPER INDUSTRY
TAPPI 48, P SUP. 66A-70A (JUNE, 1965)
AGGLOMERATION
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
TEMPERATURE EFFECT
PULP AND PAPER

540 LAND, G. W.
TRIALS OF ADDITIVES FOR SULFUR DIOXIDE REMOVAL IN INDUSTRIAL PLANTS
COMBUSTION P. 30 - 33 (DEC 1969)
ASH
COAL-FIRED BOILERS
SULFUR OXIDES, SEE ALSO CONDITIONING

541 LANGER, G., ET AL.
DEVELOPMENT OF A SIMPLE, HIGH-RESOLUTION, MOBILITY ANALYZER FOR SMALL CHARGED PARTICLES
REV. SCI. INSTR. 33, P 83-4 (JAN., 1962)
AEROSOL SAMPLERS & ANALYZERS

542 LANGE, A., ET AL.
THE ELECTRICAL RESISTANCE OF LEAD AND ZINC COMP. WITH SPEC. REF. TO THE GAS PHASE. APP TO ELEC GAS CLEANING
NEUE HEUTTE 12, NO. 2, P 81-8 (FEB., 1967)
LEAD, SEE ALSO NONFERROUS METALS
RESISTIVITY, SEE ALSO BACK CORONA
ZINC, SEE ALSO NONFERROUS METALS

543 LANGE, H. W.
FUME AND DUST COLLECTION IN MINING INDUSTRY
IND. WATER WASTES 7, P 59-62, (MAY-JUNE, 1962)
IRON AND STEEL
NONFERROUS METALS

544 LARDIT, F.
PROBLEMS OF THE ELECTRICAL PURIFICATION OF BLAST FURNACE GASES
MET. CONSTR. MECAN. 94, P 765-76 (SEPT., 1962)
BLAST FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL

545 LARDIT, F.
THE PROBLEMS OF ELECTRICAL PURIFICATION OF BLAST FURNACE GASES II
MET. CONSTR. MECAN. 94, P 677-83 (JULY, 1962)
BLAST FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL

546 LAURENT, E.
SECONDARY COUNTEREMISSION IN APPARATUS FOR ELECTRIC PRECIPITATION OF DUST
REV. GEN. ELEC. 57, P 114-16 (1948)
BACK CORONA, SEE ALSO RESISTIVITY
TEMPERATURE EFFECT
RESISTIVITY, SEE ALSO BACK CORONA

547 LEAVITT, J. M.
AIR POLLUTION STUDIES AND CONTROL-TVA COAL ELECTRIC GEN. PLANTS
PROC. ANNUAL SANITARY WATER RESOURCES ENG. CONF., VANDERBILT UNIV., (1965)
ASH
COAL-FIRED BOILERS
POWER PLANT

548 LEIB, H.
DUST SEPARATION AND FLUE GAS COMPOSITION OF THE INDUSTRIAL REFUSE INCINERATION PLANT OF THE BASF
MITTEIL. VER. GROSSKESSELBESITZER NO. 93, P 434-7 (DEC 1969)
CORROSION
EFFICIENCY
IRON AND STEEL
SULFUR OXIDES, SEE ALSO CONDITIONING

549 LELONG, P.
DUST REMOVAL FROM OXYGEN BLOWN OPEN HEARTH PLANTS
CENTRE DOCUM. SIDERURG. CIRC., NO. 1, P 175-204 (1965)
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

550 LEMKE, E. E., ET AL.
AIR POLLUTION CONTROL MEASURES FOR HOT DIP GALVANIZING KETTLES
PROC. 52ND ANNUAL MEETING, AIR POLL. CONT. ASSOC. (1959)
JAPCA 10, P 70-77 (FEB 1960)
IRON AND STEEL
OIL FUME

551 LEMPP, M.
THE STATE OF DEVELOPMENT OF DUST REMOVAL TECHNIQUE
TECH. ÜBERWACH. 6, NO. 4, P 117-21 (1965)
EFFICIENCY
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

552 LEVITOV, V. I., ET AL.
ELECTRICAL CHARACTERISTICS OF CERTAIN TYPES OF CORONA ELECTRODES OF ELECTROSTATIC PRECIPITATORS
AKADEMIYA NAUK, IZVESTIYA, ENERGETIKA I TRANSPORT NO. 3, P 91-7 (JUNE, 1966)
DISCHARGE ELECTRODE
GASEOUS DISCHARGE

553 LEVITOV, V. I., ET AL.
EFFECT OF SHAPE OF CORONA ELECTRODES ON DRIFT VELOCITY OF AEROSOLS IN PRECIPITATORS
AKADEMIYA NAUK, IZVESTIYA, ENERGETIKA I TRANSPORT NO. 4, P 76-80 (JULY-AUG., 1966)
DISCHARGE ELECTRODE
GASEOUS DISCHARGE
PARTICLE MIGRATION VELOCITY

554 LEWIS, C. J., ET AL.
THE LIME INDUSTRY'S PROBLEM OF AIRBORNE DUST

J. AIR POLLUTION CONTROL ASSOC. 19, 1 (1969) PP 31-39, REPT 10
LIME

555 LEWITT, S. A.
IMPROVED BLAST-FURNACE GAS CLEANING
J. IRON STEEL INST. 195, P 205-11, (JUNE, 1960)
BLAST FURNACE, SEE ALSO IRON AND STEEL
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
IRON AND STEEL

556 LICHAU, A.
SILICON POWER SEMICONDUCTORS IN THE ADJUSTMENT OF SUPPLIES FOR ELECTROSTATIC PRECIPITATORS
BBC NACHR. 50, NO. 3, P 152-5 (MARCH, 1968)
ELECTRICAL ENERGIZATION

557 LIESEGANG, D.
EFFECT OF GAS TEMP. ON SEPARATION EFFICIENCY AND DESIGN OF ELEC. PRECIPITATOR INSTALLATIONS
STAUB 28, NO. 10, P 403-5 (OCT., 1968)
COLLECTING ELECTRODES
CONDITIONING
DISCHARGE ELECTRODE
EFFICIENCY
TEMPERATURE EFFECT
RAPPING AND VIBRATING
RESISTIVITY, SEE ALSO BACK CORONA

558 LIESEGANG, W.
PROGRESS IN THE AUTOMATION OF MODERN DUST REMOVAL PLANTS FOR OXYGEN BLOWN CONVERTERS
KLEPZIG FACHBER. 73, P 79-82 (MARCH, 1965)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL

559 LINDAU, L.
COSTS FOR DUST ARRESTORS ON CUPOLAS IN SWEDEN
AIR ENG. 11, NO. 1, P 20-2 (1969)
CUPOLA
ECONOMICS

560 LINNETT, J.W., ET AL.
THE MECHANISM OF SPARK IGNITION
TRANS. FARA SOC. 41, P 487-98 (1945)
GASEOUS DISCHARGE
SAFETY

561 LIPPMANN, M.
ELECTROSTATIC PRECIPITATORS
AIR SAMPLING INSTRUMENTS, AM. CONF. OF GOV. INDUS. HYG., CIN. OHIO, P B-4-1 - B-4-22, 1ST ED 1960, ETC.
AEROSOL SAMPLERS & ANALYZERS

562 LIPSCOMB, W. N., ET AL.
AN INVESTIGATION OF A METHOD FOR THE ANALYSIS OF SMOKES ACCORDING TO PARTICLE SIZE

J. APPL. PHYS. 18, P 72-9 (JAN., 1947)
AEROSOL SAMPLERS & ANALYZERS
PARTICLE CHARACTERISTICS

563 LITTLE, A.
PRACTICAL ASPECTS OF ELEC. PPTR. OPERATION, EXPERIMENTS IN A PILOT PLANT
TRANS. INST. CHEM. ENGRS. (LONDON) 34, P 259-68 (1956)
COAL-FIRED BOILERS
EFFICIENCY
GAS FLOW
PARTICLE CHARACTERISTICS
PILOT PLANT
RAPPING AND VIBRATING
RE-ENTRAINMENT

564 LITTLE, L. L.
STATIC AUTOMATIC CONTROL FOR ELECTRICAL PRECIPITATORS
COMBUSTION 29, P 55-7 (1958), BLAST FURNACE STEEL PLANT 46, P 711-3 (JULY, 1958)
CONTROLS
EFFICIENCY
ELECTRICAL ENERGIZATION

565 LITTLE, L. L., ET AL.
AUTOMATIC POWER CONTROL IMPROVES PRECIPITATOR EFFICIENCY
POWER ENG. 64, P 64 (MAR 1960)
CONTROLS

566 LIU, B.Y.H., ET AL.
EFFECT OF PRESSURE AND ELECTRIC FIELD ON THE CHARGING OF AEROSOL PARTICLES
UNIV. OF MINN. PARTICLE LAB PUBL. 119 (OCT. 1967)
CHARGING
ELECTRIC FIELD
PRESSURE EFFECT

567 LIU, B.Y.H., ET AL.
ON THE THEORY OF CHARGING OF AEROSOL PARTICLES IN AN ELECTRIC FIELD
J. APPLIED PHYSICS 39, NO. 3, P 1396-1402 (FEB 1968)
CHARGING
ELECTRIC FIELD
PARTICLE CHARACTERISTICS

568 LIU, B. Y. H.
AEROSOL RESEARCH -UNIVERSITY OF MINNESOTA
PARTICLE TECHNOLOGY LABORATORY JAPCA 18 NO. 10, P 594-695 (1968)
AEROSOL SAMPLERS & ANALYZERS
CHARGING
PARTICLE CHARACTERISTICS

569 LIU, B. Y. H., ET AL.
PARTICLE CHARGING AT LOW PRESSURES
J. COLLOID INTERFACE SCI. 23, P 367-78 (1967)
CHARGING

PARTICLE CHARACTERISTICS

570 LIU, B. Y. H., ET AL.
A PULSE-CHARGING PULSE-PRECIPITATING ELECTROSTATIC AEROSOL SAMPLER
ANAL. CHEM. 40, P 843-7, (APRIL, 1968)
AEROSOL SAMPLERS & ANALYZERS
CHARGING
ELECTRICAL ENERGIZATION

571 LIU, B. Y. H., ET AL.
DIFFUSION CHARGING OF AEROSOL PARTICLES AT LOW PRESSURE
J. APPL. PHYS. 38, P 1592-7 (MARCH, 1967)
AEROSOL SAMPLERS & ANALYZERS
CHARGING
ELECTRIC FIELD
PARTICLE CHARACTERISTICS

572 LLEWELLYN, JONES, F.
IONIZATION AND BREAKDOWN IN GASES
JOHN WILEY, NY (1957)
GASEOUS DISCHARGE

573 LLOYD, H. B., ET AL.
OPERATING EXPERIENCE WITH OXYGEN-ASSISTED OPEN-HEARTH FURNACES
IRON STEEL INST. (LONDON) SPEC. REPT. NO. 83, P 65-70 (1964)
GAS FLOW
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

574 LODGE, O. J.
ELECTRICAL PRECIPITATION
OXFORD UNIV. PRESS, LONDON (1925)
BOOKS ON ESP, ALSO EXTENDED TREATMENT OF ESP

575 LOEB, L. B.
BASIC PROCESSES OF GASEOUS ELECTRONICS
UNIV. OF CALIF. PRESS, BERKELEY, (1956)
GASEOUS DISCHARGE

576 LOEB, L. B.
FUNDAMENTAL PROCESSES OF ELECTRICAL DISCHARGES IN GASES
WILEY, NEW YORK, 1939
GASEOUS DISCHARGE

577 LOEB, L. B.
ELECTRICAL CORONAS
UNIV. OF CALIF. PRESS, BERKELEY (1965)
GASEOUS DISCHARGE

578 LOEB, L. B.
RECENT DEVELOPMENTS IN ANALYSIS OF THE MECHANISMS OF POSITIVE AND NEGATIVE CORONAS IN AIR
J. APPLIED PHYSICS 19, P 882-97 (OCT 1948)
GASEOUS DISCHARGE

579 LOEB, L. B., ET AL.

THE MECHANISM OF THE ELECTRIC SPARK
STANFORD UNIV. PRESS, (1941), P 94-95
GASEOUS DISCHARGE

580 LOEB, L. B., ET AL.
ELECTRICAL DISCHARGES IN AIR AT ATMOSPHERIC PRESSURE
J. APPLIED PHYSICS 10, P 142-159, (MAR., 1939)
GASEOUS DISCHARGE

581 LOEB, L. B., ET AL.
NEGATIVE COAXIAL CYLINDRICAL CORONA DISCHARGES IN PURE N2, O2 AND MIXTURES THEREOF
J. APPLIED PHYSICS 22, P 614-621, (MAY, 1951)
GASEOUS DISCHARGE
RADIOACTIVE

582 LOEB, L. B., ET AL.
STARTING POTEN OF POS AND NEG CORONAS WITH COAXIAL GEOM IN PURE N2, PURE O2 AND VARS MIX AT PRES FROM ATMOS TO 27 MM
J. APPLIED PHYSICS 22, P 740-42 (JUN 1951)
GASEOUS DISCHARGE

583 LOHRBERG, K.
PROGRESS IN CLEANING OF WASTE GASES FROM METALLURGICAL FURN. WITH EMPHASIS ON NON-FERROUS METALLURGY
NEUE HUTTE 9, P 719-26 (DEC., 1964)
NONFERROUS METALS

584 LOQUENZ, H.
EXPER. AND RESULTS WITH A DEVICE FOR THE DETERMINATION OF ELEC. RESISTIVITY
STAUB 27, P 244-5 (1967), STAUB (ENG. TRANS.) 27, P 41+ (1967)
AEROSOL SAMPLERS & ANALYZERS
CONDITIONING
TEMPERATURE EFFECT
PARTICLE MIGRATION VELOCITY
RESISTIVITY, SEE ALSO BACK CORONA

585 LOWE, H. J., ET AL.
THE PRECIPITATION OF DIFFICULT DUSTS
INST. ELEC. ENGRS. COLLOQ. ON ELECTROSTATIC PRECIPITATORS (FEB., 1965)
BACK CORONA, SEE ALSO RESISTIVITY
COAL-FIRED BOILERS
COLLECTING ELECTRODES
DISCHARGE ELECTRODE
EFFICIENCY
RAPPING AND VIBRATING
RESISTIVITY, SEE ALSO BACK CORONA
PARTICLE MIGRATION VELOCITY

586 LOWE, H. J., ET AL.
THE PHYSICS OF ELECTROSTATIC PRECIPITATION
BRIT. J. APPL. PHYS. SUPPL. NO. 2, P S40-S47 (1953)
AEROSOL SAMPLERS & ANALYZERS
CHARGING

COAL-FIRED BOILERS
EFFICIENCY
ELECTRIC FIELD
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RE-ENTRAINMENT

587 LUDMILA, J.
ELECTROSTATIC PRECIPITATION OF TAR MIST
ZPR. VSTAVU VEDECKY VYZKUM UHLI, 4, P 91-100, (1948)
TAR

588 LUNDE, K. E., ET AL.
DUST AND MIST COLLECTION ... A CRITIQUE ON THE STATE OF THE ART
JAPCA 7, P 289-96, (FEB., 1958)
AGGLOMERATION
CONDITIONING
GASEOUS DISCHARGE
PARTICLE CHARACTERISTICS
RAPPING AND VIBRATING

589 LUTYNSKI, J.
PHYSICAL PRINCIPLES OF ELECTROSTATIC PRECIPITATORS
PRZEGLAD ELEKTROTECH 36, P 278-84, (JULY, 1960)
CHARGING
EFFICIENCY
GASEOUS DISCHARGE
PARTICLE MIGRATION VELOCITY

590 LUTYNSKI, J.
POWER SUPPLY FOR ELECTROFILTERS
PRZEGLAD ELEKTROTECH. 30, NO. 4, P 141-6 (1954)
ELECTRICAL ENERGIZATION

591 LUTYNSKI, J.
ELEKTROSTATYCZNE ODPYLANIC GAZOW (ELECTROSTATIC DUST
COLLECTORS FOR GASES)
WARSZAW, WNT, (1965)
BOOKS ON ESP, ALSO EXTENDED TREATMENT OF ESP

592 LUTYNSKI, J.
THE EFFICIENCY OF ELEC. PPTRS.
BIUL. INST. ENERGETYKI, NO. 3, P 1-35 (1955)
EFFICIENCY

593 LUTYNSKI, J.
EVALUATION OF TWO INSTALLATIONS OF ELEC. PPTRS. FOR BOILER DUST
BIUL. KOMISJI TECHN. OCZYSZCZ. ATMOSFERY PAN, NO. 6, P 167-201
(1959)
ASH
COAL-FIRED BOILERS

594 MAARTMAN, S.
COLLECTION OF DUST FROM OIL-FIRED BOILERS IN MULTI-CYCLONES AND
ELECTROSTATIC PRECIPITATORS
PROC. INTERN. CLEAN AIR CONGR. PART 1, P 131-3 (1966)

COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
OIL-FIRED BOILER
OIL FUME
PARTICLE CHARACTERISTICS
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

595 MACHAT, S.
HOW SOLID-STATE DEVICES IMPROVE ELECTROSTATIC PRECIPITATOR PERFORMANCE
POWER 111, P 64-7, (FEB., 1967)
CONTROLS
ELECTRICAL ENERGIZATION

596 MACKNIGHT, R. J., ET AL.
SULFURIC ACID MANUFACTURING
AIR POLLUTION ENGINEERING MANUAL, J. A. DANIELSON, ED., U.S. PUBLIC HEALTH SERVICE PUBL. 999-AP-40, P 695-701, (1967)
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

597 MAGNUS, M. N.
HISTORY OF FLY ASH COLL. AT THE SOUTH CHARLESTON PLANT UNION CARBIDE CORP. CHEM. DIV.
J. AIR POLL. CONT. ASSOC. 15, P 149-54 (1965)
ASH
COAL-FIRED BOILERS
DUST DISPOSAL
ECONOMICS
EFFICIENCY
ELECTRICAL ENERGIZATION

598 MALARKEY, E. J., ET AL.
HIGH EFFICIENCY KRAFT MILL PRECIPITATORS
PAPER TRADE MAG OF CANADA 69, NO. 24, T434-T437(DEC 20, 1968)
PAPER TRADE J. 152, NO. 40, P 57-8 (1968)
EFFICIENCY
PULP AND PAPER
RAPPING AND VIBRATING

599 MASUDA, S. L., ET AL.
INLET GAS HUMIDIFICATION SYSTEM FOR ELECTROSTATIC PRECIPITATOR
IND. ENG. CHEM. - PROC. DESIGN DEVELOP., 5, P 135-45 (APRIL, 1966)
CEMENT
CONDITIONING
RESISTIVITY, SEE ALSO BACK CORONA

600 MASUDA, S.
THE INFLUENCE OF TEMPERATURE AND MOISTURE ON THE ELECTRICAL CONDUCTIVITY OF HIGH-RESISTIVITY DUST
STAUB (ENGL. TRANSL.) 25, NO. 5, P 1-11 (1965)
BACK CORONA, SEE ALSO RESISTIVITY
CONDITIONING
TEMPERATURE EFFECT
RESISTIVITY, SEE ALSO BACK CORONA

601 MASUDA, S.
STATISTICAL OBSERVATIONS ON EFFICIENCIES OF ELECTROSTATIC PRECIPITATORS
STAUB (ENGL. TRANSL.) 26, NO. 11, P 6-11 (1965)
EFFICIENCY

602 MASUDA, S.
EFFECTS OF TEMPERATURE AND HUMIDITY ON APPARENT CONDUCTIVITY OF HIGH RESISTIVITY DUST
J. INST. ELEC. ENGRS. JAPAN 80, P 1790-9 (1960)
TEMPERATURE EFFECT
CEMENT
CONDITIONING
RESISTIVITY, SEE ALSO BACK CORONA

603 MASUDA, S.
EFFECT OF TEMP. AND HUMIDITY ON APPARENT CONDUCT. OF HIGH RESISTIVITY DUST
ELECTROTECH. J. JAPAN 7, NO. 3, P 108-13 (1962)
CEMENT
CONDITIONING
TEMPERATURE EFFECT
RESISTIVITY, SEE ALSO BACK CORONA

604 MASUDA, S.
ON IMPROVEMENT OF CLEANING EFF. OF ELEC. PPTR. THROUGH ITS INLET GAS HUMIDIFICATION
J. INST. ELEC. ENGRS. JAPAN 81, P 968-74 (1961)
CEMENT
CONDITIONING
EFFICIENCY
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

605 MASUDA, S.
RESERVE IONIZATION PHENOMENA IN ELECTROSTATIC PRECIPITATION
J. INST. ELEC. ENGRS. JAPAN 80, P 1482-9 (1960)
BACK CORONA, SEE ALSO RESISTIVITY
CEMENT
GASEOUS DISCHARGE
RESISTIVITY, SEE ALSO BACK CORONA

606 MCBREEN, J. P.
ELECTRIC DETARRERS FOR GASWORKS
METROP.-VICK. GAZ. 22, P 238-40, (FEB., 1948)
TAR
WET PRECIPITATORS

607 MCCABE, L. C.
ELEC. PPTR. OPERATED WET FOR RECOVERY OF FUMES AND GASES FROM ALUMINUM ALLOY PROCESSING
IND. ENG. CHEM. 44, P SUP. 121A-122A (MAY, 1952)
ALUMINUM, SEE ALSO NONFERROUS METALS
NONFERROUS METALS
WET PRECIPITATORS

608 MCCABE, L. C.
FIRST ELEC. PPTR. INSTALLED ON OPEN HEARTH FURNACE
IND. ENG. CHEM. 43, P SUP. 89A-90A+ (MARCH, 1951)
IRON AND STEEL
LEAD, SEE ALSO NONFERROUS METALS
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
PARTICLE CHARACTERISTICS
ZINC, SEE ALSO NONFERROUS METALS

609 MCCANDLISH, R. W., ET AL.
NEW CLEANING METHOD FOR ELECTROSTATIC PRECIPITATORS
IND. POWER 64, P 80-2 (JUNE, 1953)
RAPPING AND VIBRATING

610 MCILVAINE, R. W.
AIR POLLUTION EQUIPMENT FOR FOUNDRY CUPOLAS
J. AIR POLLUTION CONTROL ASSOC. 17, P 540-54 (1967)
CUPOLA
FOUNDRIES
IRON AND STEEL

611 MCILVAINE, R. W.
HOW TO EVALUATE CUPOLA DUST CONTROL SYSTEMS
FOUNDRY 96, P 83 (FEB 1968)
CUPOLA
EFFICIENCY

612 MCKERROW, G. C., ET AL.
ELECTRICAL PRECIPITATION AND COLLECTION OF DUST AT THE NORANDA SMELTER
CAN. MIN. METAL. BUL. 55, P 696-702 (OCT., 1962)
ASH
COAL-FIRED BOILERS
COPPER, SEE ALSO NONFERROUS METALS
EFFICIENCY
GAS FLOW
GOLD, SEE ALSO NONFERROUS METALS
TEMPERATURE EFFECT
MAINTENANCE
NONFERROUS METALS
RAPPING AND VIBRATING

613 MCLEAN, K. J.
INFLUENCE OF CONTAMINATED COLLECTING PLATES ON THE PERFORMANCE OF ELECTROSTATIC PRECIPITATORS
INSTN ENGR AUSTRAL ELEC ENG TRANS, EE4, NO. 1, 1968, PROC 1967 PWR SYS CONF OF INSTN OF ENGR, MELBOURNE, P 141-6 1967
CHARGING
EFFICIENCY
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

614 MECKLER, M.
COST ESTIMATING, AIR HANDLING EQUIP. FOR CONTAMINATION CONTROL
AIR COND. HEATING VENT. 65, P 37-40 (JULY, 1968)
ECONOMICS

615 MEEK, C. A., ET AL.
ENERGY EFFICIENCY OF IONIZATION IN ELECTRICAL PRECIPITATION
TRANS. FARADAY SOC. 32, P 1273-84, 1289-90 (AUG., 1936)
CHARGING
ELECTRIC FIELD
GASEOUS DISCHARGE

616 MEINSHAUSEN, G.
OPERATIONAL EXPERIENCE WITH DUST REMOVAL EQUIPMENT IN FORCED OXYGEN STEELWORKS
STAHL EISEN (DUSSELDORF) 87, NO.22, P 1304-1309, (NOV., 1967)
TEXT IN GERMAN
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL
WET PRECIPITATORS

617 MEISTER, W., ET AL.
CLEANING OF BROWN SMOKE IN A BESSEMER CONVERTER WITH A WET ELECTROSTATIC PRECIPITATOR
STAHL EISEN 80, P 1803-5, (1960)
BESSEMER CONVERTER
IRON AND STEEL
WET PRECIPITATORS

618 MELDAU, R.
GAS CLEANING IN THE STEEL INDUSTRY
DENIV VE CELIK 14, NO. 9, P 194-6, NO. 10, P 224-8 (1965), TEXT IN TURKISH
IRON AND STEEL

619 MELDAU, R.
GAS CLEANING PLANT IN THE IRON AND STEEL INDUSTRY
KRUPP. TECH. REV. 22, P 99-103 (NOV., 1964)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
ELECTRIC ARC FURNACE
IRON AND STEEL

620 MENES, M., ET AL.
POSITIVE POINT-TO-PLANE CORONA STUDIES IN AIR
PHYS. REV. 94, NO. 1, P 1-6, (APRIL,1954)
GASEOUS DISCHARGE

621 MERCER, T. T.
CHARGING AND PRECIPITATION CHARACTERISTICS OF SUBMICRON PARTICLES IN THE ROHMANN ELEC. PART. SEPARATION
REPT. UR-475, CFSTI (1957) PUBL. NO. UR-475 (NOV., 1956) NSA
CHARGING
PARTICLE CHARACTERISTICS

622 MIERDEL, G.
ELECTROFILTER INVESTIGATIONS - INFLUENCE OF SUSPENDED AND PPTR. DUST ON CHARAC. OF ELEC. DUST FILTERS
WISSENSCHAFTLICHE VEROFFENTLICHUNGEN AUSDEM SIEMENS-KONZERN 13, NO. 2, P 94-102 (1934), VDI Z. 78, P 1346 (1934)
CHARGING
EFFICIENCY

GASEOUS DISCHARGE

623 MIERDEL, G.
THE MIGRATION VELOCITY OF SUSPENDED DUST PARTICLES IN ELECTROFILTERS
PHYSIK Z. 33, P 823-4 (1932), Z. TECH. PHYSIK. 13, P 564-7 (1932)
CHARGING
EFFICIENCY
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

624 MIERDEL, G.
PHYSICAL BASIS OF ELECTRIC GAS PURIFICATION
Z. TECH. PHYSIK. 15, P 159-78 (1934)
ASH
BLAST FURNACE, SEE ALSO IRON AND STEEL
CHARGING
COAL-FIRED BOILERS
EFFICIENCY
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE
IRON AND STEEL
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

625 MIERDEL, G., ET AL.
PHYSICAL BASIS OF ELECTRICAL GAS PURIFICATION
TRANS. FARADAY SOC. 32, P 1284-89, (AUG., 1936)
CHARGING
GASEOUS DISCHARGE
PARTICLE MIGRATION VELOCITY
RESISTIVITY, SEE ALSO BACK CORONA

626 MIERDEL, G., ET AL.
STUDIES ON PHYSICAL PROCESSES IN ELECTRIC FILTERING
ARCH. ELEKTROTECH. 29, P 149-72, (MARCH, 1935)
BACK CORONA, SEE ALSO RESISTIVITY
EFFICIENCY
ELECTRIC FIELD
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE

627 MILLS, J. L., ET AL.
UNIQUE APPLICATION OF AIR POLLUTION CONTROL DEVICES
APCA (MAY 20-24, 1956) P 11-1, 11-20, (49TH ANNUAL
MEETING - BUFFALO, NY)
ASPHALT
FOUNDRIES
INCINERATION
OIL FUME
NONFERROUS METALS
WET PRECIPITATORS

628 MILLS, J., ET AL.
EXPERIENCES IN THE APP OF ELEC PPTR TECH TO AUSTRALIAN B.O.F.
PRACTICE
BHP TECH. BULL. 10, NO. 3, P 39-44 (OCT., 1966)

BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL

629 MINNICK, L.J.
FUNDAMENTAL CHARACTERISTICS OF PULVERIZED COAL FLY ASHES
ASTM 62 ANNUAL MEETING, JUNE 1959
ASH
COAL-FIRED BOILERS
PARTICLE CHARACTERISTICS

630 MIN, KUN, ET AL.
PARTICLE TRANSPORT AND HEAT TRANSFER IN GAS-SOLID SUSPENSION FLOW UNDER THE INFLUENCE OF AN ELECTRIC FIELD
NUCLEAR SCIENCE AND ENG. 26, P 534-546, (1966)
ELECTRIC FIELD
GASEOUS DISCHARGE

631 MIRZABEKYAN, G. Z.
THE CHARGING OF CONDUCTING SPHERICAL PART WITH A RADIUS OF THE ORDER OF A FREE PATH LENGTH FOR IONS IN AIR
SOVIET PHYS. TECH. PHYS. 11, NO. 7, P 935-41 (ENGL TRANSL) (JAN1967)
CHARGING
PARTICLE CHARACTERISTICS

632 MITCHELL, R. T.
DRY ELECTROSTATIC PRECIPITATORS AND WAAGNER-BIRO WET WASHING SYSTEMS
IRON STEEL INST. (LONDON) SPEC. REPT. NO. 83, P 80-5 (1964)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
DUST DISPOSAL
ECONOMICS
EFFICIENCY
IRON AND STEEL

633 MOLYNEUX, F.
ELECTROSTATIC CYCLONE SEPARATOR
CHEM. PROCESS ENG. 44, P 517-9, (1963)
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
EFFICIENCY
PARTICLE CHARACTERISTICS

634 MOORE, W.W.
FACTORS INFLUENCING YOUR A-P CONTROL REQUIREMENTS
MECAR SYMP, NY, NY, 1968
EFFICIENCY
TEMPERATURE EFFECT
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

635 MOORE, W. W.
IS 99 PERCENT PRECIPITATOR EFFICIENCY NECESSARY
ELEC. LIGHT POWER 44, P 48-51 (DEC., 1966)
ASH
EFFICIENCY

636 MORROW, P. E., ET AL.

A POINT-TO-PLANE ELEC. PPTR. FOR PARTICLE SIZE SAMPLING
AM. IND. HEALTH ASSOC. J. 25, P 8-14, (JAN., 1964)
AEROSOL SAMPLERS & ANALYZERS
PARTICLE CHARACTERISTICS

637 MUERMANN, H.
DUST REMOVAL INSTALLATIONS FOR FOUNDRIES
GIESSEREI, 49, P 559-69 (AUG., 1962)
FOUNDRIES

638 MUHLRAD, W.
DUST REMOVAL FROM GAS OF PULVERIZED COAL BOILERS
GENIE CIVIL 129, P 63-6 (1962)
ASH
COAL-FIRED BOILERS
EFFICIENCY
PARTICLE CHARACTERISTICS

639 MUKAI, S., ET AL.
ELECTROSTATIC CONCENTRATION OF LOW ASH COAL IN A CORONA DISCHARGE
MEM. FAC. ENGNG, KYOTO 25, NO. 3, P 323-33 (JULY, 1963)
COAL PROCESSING

640 MUKHLENOV, J. P., ET AL.
INCREASE IN EFF. OF WET COLL. OF HIGHLY DISPERSE DUST BY
PRELIM. PART. CHARGING
KHIMICHESAYA PROMYSHLENNOST, NO. 5, P 50-53 (MAY, 1968)
CHEM. IND. P 370+ (MAY, 1968)
CHARGING
EFFICIENCY
TWO-STAGE PRECIPITATORS
WET PRECIPITATORS

641 MURPHY, A. T., ET AL.
THEORETICAL ANALYSIS OF EFFECTS OF ELECTRIC FIELD ON CHARGING
OF FINE PARTICLES
TRANS. AM. INST. ELEC. ENGRS. (COMMUN. ELECTRON) 79, PART 1,
P 318-26 (1959)
CHARGING
EFFICIENCY
GASEOUS DISCHARGE

642 MYZENKO, D. K., ET AL.
GAS PURIFICATION FOR BLAST FURNACES WITH HIGH PRESSURE
AND ENRICHED BLAST
STAL. 20, P 182-6 (FEB., 1960), STAL IN ENGLISH NO. 2, P 149-53
(FEB., 1960)
BLAST FURNACE, SEE ALSO IRON AND STEEL
PRESSURE EFFECT
IRON AND STEEL
WET PRECIPITATORS

643 NAGEL, L. L.
POWER ARRANGEMENTS AND SWITCHING SYSTEMS FOR ELECTROSTATIC
PRECIPITATORS
ELEC. PPTR. 1959-1960, ENG. PROC. P 37, P 1-12, (DEC.,1960) (ENG.

SEM. ON ELEC. PPTR. AT PENN. ST. UNIV.,JUNE,1960)
CONTROLS
ELECTRICAL ENERGIZATION

644 NAGEL, L. L.
MODERNIZATION OF PRECIPITATOR POWER EQUIPMENT
INST. ELEC. ELECTRON ENGRS.,, 3RD CONF. ON RECTIFIERS IN IND.
P 161-9, (1963)
CONTROLS
ECONOMICS
EFFICIENCY
ELECTRICAL ENERGIZATION
SAFETY

645 NAGEL, L. L.
13 REASONS WHY IT PAYS TO UPDATE PRECIPITATORS WITH SILICON CONVERSION KITS
AIR ENG. 6, P 27-9 (MARCH, 1964)
ELECTRIC ARC FURNACE

646 NAGEL, L. L.
WHAT YOU SHOULD KNOW ABOUT ELECTRICAL REQUIREMENTS OF ELECTROSTATIC PRECIPITATORS
AIR ENG. 3, P 31-3, 43, (MARCH, 1961), P 30-41 (MAY, 1961)
CONTROLS
ELECTRICAL ENERGIZATION

647 NAGEL, R.
IS THE SMOKELESS POWER STATION ATTAINABLE
ENERGIE 9, NO. 6, P 221-9, (1957)
POWER PLANT

648 NAITO, R., ET AL.
EFFECT OF THE ADDITION OF COTTRELL DUST TO CEMENT RAW MIXTURE ON THE CLINKER MINERAL PROD.
SEIMENTO GIJUTSU NENPO 10, P 39-46 (1956)
CEMENT

649 NATANSON, G. L.
THEORY OF CHARGING SUBMICROSCOPIC AEROSOL PART. AS A RESULT OF CAPTURING GAS IONS
ZHUR. TEKH. FIZ 30, P 573-588 (1960), SOV. PHY TECH PHYS (ENG. TRANS) 5, P 538+ (1960)
CHARGING

650 NELSON, R. E.
THE DESIGN OF RECTIFIER TUBES FOR HIGH POWER ELECTROSTATIC PRECIPITATION
CATH. PRESS 8, P 35-7, (1951)
ELECTRICAL ENERGIZATION

651 NEUMANN, W.
POSSIBILITIES AND COSTS OF DUST REMOVAL
TECH. ÜBERWACH. 6, P 121-4 (1965), GLUCKAUF 101, NO. 13, P 819 (1965)

ECONOMICS

652 NGUYEN, T. D.
SUPPRESSION OF BACK CORONA IN COMP. AIR WITH APP. TO HIGH-VOLTAGE GENERATORS AND ELEC. PPTRS.
COMPT. REND. 250 P 1001-3 (1960) TRANS. BY M. ROBINSON
BACK CORONA, SEE ALSO RESISTIVITY
PRESSURE EFFECT
RESISTIVITY, SEE ALSO BACK CORONA

653 NHAN, TRAN AN
MEASUREMENT OF LEVEL OF BACK CORONA IN A FIELD OF BIPOLAR IONIZATION
COMPT. REND. 246, P 3028-31, (1958)
BACK CORONA, SEE ALSO RESISTIVITY
ELECTRIC FIELD
GASEOUS DISCHARGE

654 NICHOLS, W. R.
APPLICATION OF ELEC. PPTR. TO CEMENT KILN EFFLUENT
ELEC. PPTR. 1959-1960, ENG. PROC. P 37, P 13-21, (DEC.,1960) (ENG. SEM. ON ELEC. PPTR. AT PENN. ST. UNIV. JUNE,1960)
CEMENT
CONDITIONING
DUST DISPOSAL
TEMPERATURE EFFECT
RAPPING AND VIBRATING
RESISTIVITY, SEE ALSO BACK CORONA

655 NIEDRA, J. M., ET AL.
ORIENTATION AND ADHESION OF PARTICLES IN ELECTROSTATIC PRECIPITATION
INST. ELEC. ELECTRON ENGRS. INTERN. CONV. REC. 13, PART 7, P 88-94 (1965)
RE-ENTRAINMENT

656 NOETZLIN, G.
OPERATING EXPERIENCE WITH THE LURGI FLUE GAS ELECTROSTATIC PPTR. OF THE HULS CHEMICAL PLANT
MITT. VEREIN. GROSSKESSELBESITZER, NO. 23, P 384-91, (1953)
ASH
COAL-FIRED BOILERS
EFFICIENCY
GASEOUS DISCHARGE
GAS FLOW
PARTICLE CHARACTERISTICS
RAPPING AND VIBRATING

657 NOWAK, F.
EXPERIENCES WITH THE STUTTGART REFUSE INCINERATION PLANT
BRENNSTOFF-WÄRME-KRAFT (DUESSELDORF) 19, NO. 2, P 71-6 (FEB., 1967)
INCINERATION

658 NYGAARD, K. J.
ANEMOMETRIC CHARACTERISTICS OF A WIRE-TO-PLANE ELECTRICAL DISCHARGE

REV. OF SCI. INSTRUMENTS 36, NO. 12, P 1771-1774, (DEC.,1965)
GASEOUS DISCHARGE
GAS FLOW

659 NYGAARD, K. J.
ELECTRIC WIND GAS DISCHARGE ANEMOMETER
REV. OF SCI. INSTRUMENTS 36, NO. 9, P 1320-1323, (SEPT.,1965)
ELECTRIC WIND
GASEOUS DISCHARGE
GAS FLOW

660 NYGAARD, K. J.
FREQUENCY OF CORONA DISCHARGE TRICHEL PULSES IN AIR FLOWS
J. OF APPLIED PHYSICS 37, NO. 7, P 2850-2852, (JUNE, 1966)
GASEOUS DISCHARGE

661 OCHS, H. J.
ELECTROPRECIPITATORS FOR INDUSTRIAL DUST REMOVAL
WASSER LUFT BETRIEB 9, P 439-42 (JULY, 1965)
EFFICIENCY
ELECTRICAL ENERGIZATION
RESISTIVITY, SEE ALSO BACK CORONA

662 OKUMA, R., ET AL.
AIR-POLLUTION PREVENTION IN CEMENT WORKS
HEAT ENGINEERING (TOKYO) 19, P 18-26, (APRIL, 1967), (TEXT IN JAPANESE)
INCINERATION

663 OLESOV, N. A.
EFFECT OF ADDITION OF SURFACE-ACTIVE AGENTS ON THE PROPERTIES OF DUST COLLECTED BY ELECTROSTATIC FILTERS
TSEMENT 34, NO. 3, P 7-8, (1968), TEXT IN RUSS.
CEMENT
TEMPERATURE EFFECT
RESISTIVITY, SEE ALSO BACK CORONA

664 ONDOVILLA, A. G.
ELECTROFILTRATION OF GASES FROM THE COMBUSTION OF PYRITE
ANALES FIS. QUIM. (MADRID) 41, P 372-95 (1945)
IRON AND STEEL

665 ONDOVILLA, A. G.
ELECTROFILTRATION OF GASES FROM THE COMBUSTION OF PYRITES II. DUST AND MIST. SECONDARY REACTIONS
ANALES FIS. QUIM. (MADRID) 41, P 649-65 (1945)
IRON AND STEEL

666 ONSLOW, D. V.
ELECTRICAL PRECIPITATION OF FLUE DUST IN POWER STATIONS
REPT. BRIT. ELEC. ALLIED INDUST. RES. ASSOC., REF. Z/T55, (1941)
ASH
COAL-FIRED BOILERS
POWER PLANT

667 OPFELL, J. B., ET AL.

LIMITATIONS OF MODEL STUDIES IN PREDICTING GAS VELOCITY DISTRIBUTION IN COTTRELL PPTRS.
IND. ENG. CHEM. - PROC. DESIGN DEVELOP. 4, P 173-7 (APRIL, 1965)
GAS FLOW

668 OREM, S. R.
ELECTROSTATIC AND MECHANICAL COLLECTION OF FLY ASH
PROC. ENGINEERING SEMINAR ON ELECTROSTATIC PRECIPITATION, PENN. STATE UNIV. (1957)
ASH
COAL-FIRED BOILERS
CONTROLS
DUST DISPOSAL
ECONOMICS
GAS FLOW
PRESSURE EFFECT
TEMPERATURE EFFECT
MAINTENANCE
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

669 ORNING, A. A., ET AL.
MINOR PRODUCTS OF COMBUSTION IN LARGE COAL-FIRED STEAM GENERATORS
PAPER 64-WA/FU-2, AM. SOC. MECH. ENG. (1964)
COAL-FIRED BOILERS

670 O'CONNOR, J. R., ET AL.
AN AIR POLLUTION CONTROL COST STUDY OF THE STEAM-ELECTRIC POWER GENERATING INDUSTRY
PAPER NO. 69-102, AIR POLLUTION CONTROL ASSOC., (1969)
ASH
COAL-FIRED BOILERS
ECONOMICS
POWER PLANT

671 O'KONSKI, C. T., ET AL.
THE DISTORTION OF AEROSOL DROPLETS BY AN ELECTRIC FIELD
J. PHYS. CHEM. 57, P 955-8 (DEC., 1953)
ELECTRIC FIELD
PARTICLE CHARACTERISTICS

672 O'MARA R., ET AL.
DUST AND FUME PROBLEMS IN THE CEMENT INDUSTRY
PROC. AIR POLLUTION CONTROL ASSOC. P 203-9 (1954), AIR REPAIR 4, P 203-9 (1955)
CEMENT

673 O'MARA, R.
CURRENT TRENDS IN FLY ASH RECOVERY
COMBUSTION P 38-43 (APR 1950)
ASH
COAL-FIRED BOILERS
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

674 O'MARA, R., ET AL.

ELECTROSTATIC PRECIPITATION AS APPLIED TO THE CLEANING OF GRAY IRON CUPOLA GASES
PROC. AIR POLLUTION CONTROL ASSOC. P 105-8, (1953), AIR REPAIR 3, P 105-8 (1953)
CUPOLA
FOUNDRIES
IRON AND STEEL
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA
WET PRECIPITATORS

675 O'MARA, R., ET AL.
ENGINEERING DESIGN FACTORS IN DUST AND FUME RECOVERY SYSTEMS
J. AIR POLLUTION CONTROL ASSOC. 8, P 39-45 (MAY, 1958)
ALUMINUM, SEE ALSO NONFERROUS METALS
CARBON BLACK, SEE ALSO CHEMICAL PROCESSES
CEMENT
CHEMICAL PROCESSES
COAL-FIRED BOILERS
NONFERROUS METALS
OIL-FIRED BOILER
PULP AND PAPER

676 O'ROURKE, H. D., ET AL.
IMPROVEMENTS IN RECOVERY FURNACE PRECIPITATOR PRACTICES - COTTRELL PRECIPITATOR
TAPPI 39, P SUP. 150A-4A (OCT., 1956)
COLLECTING ELECTRODES
CORROSION
PULP AND PAPER
RAPPING AND VIBRATING

677 PAPOULAR, R.
ELECTRICAL PHENOMENA IN GASES
AMERICAN ELSEVIER PUBL. CO. N.Y. (1966)
GASEOUS DISCHARGE

678 PARKER, C. M.
BOP AIR CLEANING EXPERIENCES
JAPCA 16, 8 P 446 (1966)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
CONDITIONING
EFFICIENCY
TEMPERATURE EFFECT
IRON AND STEEL
MAINTENANCE

679 PARKER, K. R.
PRINCIPLES AND APPLICATIONS OF ELECTROSTATIC PRECIPITATION
CHEM. PROC. ENG. 44, P 506-11 (SEPT., 1963)
CARBON BLACK, SEE ALSO CHEMICAL PROCESSES
EFFICIENCY
ELECTRIC ARC FURNACE
IRON AND STEEL
PARTICLE CHARACTERISTICS

PARTICLE MIGRATION VELOCITY
RESISTIVITY, SEE ALSO BACK CORONA

680 PARKINGTON, T. W., ET AL.
ATTAINMENT OF HIGH PRECIPITATION EFFICIENCIES ON FINE AND SUBMICROMIC DUSTS AND FUMES
COLLOQ. INTERN. CENTRE NATL. RECH. SCI. (PARIS) NO. 102, P 351-62 (1961)
BLAST FURNACE, SEE ALSO IRON AND STEEL
CONDITIONING
CONTROLS
CUPOLA
EFFICIENCY
ELECTRICAL ENERGIZATION
ELECTRIC ARC FURNACE
GAS FLOW
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RESISTIVITY, SEE ALSO BACK CORONA
WET PRECIPITATORS

681 PAUTHENIER, M.
CORONA DISCHARGE AT HIGH TEMPERATURES AND PRESSURES
COMPT. REND. 225, P 1293-4, (1947)
CHARGING
GASEOUS DISCHARGE
PRESSURE EFFECT
TEMPERATURE EFFECT

682 PAUTHENIER, M.
CHARGING OF CONDUCTING SPHERICAL PARTICLES IN A BI-IONIZED ELECTRIC FIELD
COLLOQ. INTERN. CENTRE NATL. RECH. SCI. 102, P 279-87 (1961)
BACK CORONA, SEE ALSO RESISTIVITY
CHARGING
EFFICIENCY
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

683 PAUTHENIER, M.
THEORY OF ELEC. CHARGE ON DUST AND HIGH-VOLTAGE GENERATORS EMP. ON ELEC. DUST STREAM GENERAL RESULTS
REV. GEN. ELEC. 45, P 583-95, (MAY 6, 1939)
CHARGING
EFFICIENCY
ELECTRICAL ENERGIZATION
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

684 PAUTHENIER, M.
BI-IONIZED ELECTRIC FIELDS AND THEIR APPLICATION IN THE OPERATION OF ELECTROFILTERS
COMPT. REND. 247, P 187-189 (1958)
BACK CORONA, SEE ALSO RESISTIVITY

CHARGING
EFFICIENCY
ELECTRIC FIELD
GASEOUS DISCHARGE

685 PAUTHENIER, M.
COUNTER-EMISSION AND BI-ION FIELDS IN ELECTROSTATIC DUST REMOVAL
COLLOQ. INTERN. CENTRE NATL. RECH. SCI. (PARIS) NO. 102, P 263-273 (1961)
BACK CORONA, SEE ALSO RESISTIVITY
CHARGING
EFFICIENCY
RESISTIVITY, SEE ALSO BACK CORONA

686 PAUTHENIER, M.
ELECTRIC CHARGE OF PARTICLES IN IONIZED ELECTRIC FIELDS
TECNICA REVISTA DE ENGENHARIA NO. 248, P 227-37 (JAN., 1955)
CHARGING
EFFICIENCY

687 PAUTHENIER, M.
ELECTRIC PURIFICATION OF GAS. A FUNDAMENTAL PROBLEM IN THE OPERAT. OF ELECTROFILTERS - COUNTER-EMISSION
REV. GEN. ELEC. 69, P 175-84 (MARCH, 1960)
BACK CORONA, SEE ALSO RESISTIVITY
CHARGING
RESISTIVITY, SEE ALSO BACK CORONA

688 PAUTHENIER, M.
SINGULARITIES IN THE SPEED OF PPTR. OF SUBMICRON PART. IN IONIZING ELECTRIC FIELDS
COMPT. REND. 240, P 1761-3 (MAY, 1955)
CHARGING
ELECTRIC FIELD
PARTICLE MIGRATION VELOCITY

689 PAUTHENIER, M.
THEORY OF THE SPEED OF PRECIPITATION OF SUBMICRON PARTICLES IN IONIZED ELECTRIC FIELDS
COMPT. REND. 240, P 1610-11 (APRIL, 1955)
ELECTRIC FIELD
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

690 PAUTHENIER, M., ET AL.
CHARGE ACQUIRED BY A SPHERICAL PARTICLE IN A BIPOLARLY-IONIZED ELECTRIC FIELD
COMPT. REND., 243, P 1606-8 (1956)
BACK CORONA, SEE ALSO RESISTIVITY
CHARGING
ELECTRIC FIELD

691 PAUTHENIER, M., ET AL.
INVESTIGATION OF THE PARTICLE TRAJECTORIES IN ELECTROSTATIC PRECIPITATORS

TECH. MODERNE (PARIS) 45, P 245-48, (JUNE, 1953)
PARTICLE MIGRATION VELOCITY

692 PAUTHENIER, M., ET AL.
ELECTRIC FIELD OF BIPOLAR IONIZATION DUE TO BACK CORONA IN CONCENTRIC CYLINDERS
COMPT. REND. 246, P 1394-6, (1958)
BACK CORONA, SEE ALSO RESISTIVITY
ELECTRIC FIELD
GASEOUS DISCHARGE
RESISTIVITY, SEE ALSO BACK CORONA

693 PAUTHENIER, M., ET AL.
SUPPRESSION OF CORONA DISCHARGE IN DIRTY ATMOSPHERE
J. PHYSICS RADIUM 6, P 258-62, (1935)
GASEOUS DISCHARGE

694 PAUTHENIER, M., ET AL.
THE CHARGING OF DIELECTRIC PARTICLES BY AN IONIZED FIELD - A THEORETICAL DIFFICULTY
COMPT. REND. 262B, P 1249-52 (MAY 9 1966)
CHARGING
ELECTRIC FIELD
GASEOUS DISCHARGE

695 PAUTHENIER, M., ET AL.
ELECTRICAL PRECIPITATION OF FOGS
COMPT. REND. 231, P 953-6, (1950)
FOG

696 PAUTHENIER, M., ET AL.
EFFECT OF INSULATED CONDUCTORS ON CORONA DISCHARGE
COMPT. REND. 198, P 351-3, (JAN. 22, 1934)
CHARGING
ELECTRIC FIELD
GASEOUS DISCHARGE

697 PAUTHENIER, M., ET AL.
THE TWOFOLD PHYSICAL ASPECT OF THE INFLUENCE OF DUST DEPOSIT ON THE ELEC. PURIFICATION OF AEROSOLS
COMPT. REND. 252, P 3204-6 (MAY, 1961)
ELECTRIC FIELD
GASEOUS DISCHARGE
PARTICLE MIGRATION VELOCITY
RESISTIVITY, SEE ALSO BACK CORONA

698 PAUTHENIER, M., ET AL.
SECONDARY BACK CORONA IN DIELECTRIC FIBERS
COMPT. REND. 222, P 1219-20 (1947)
BACK CORONA, SEE ALSO RESISTIVITY

699 PAUTHENIER, M., ET AL.
LIMITING ELECTRIC CHARGE OF VERY FINE PARTICLES
COMPT. REND. 204, P 239-40 (JAN., 1937)
CHARGING
ELECTRIC FIELD

PARTICLE CHARACTERISTICS

700 PAUTHENIER, M., ET AL.
ABSORPTION OF IONS BY SPHERICAL CONDUCTING PARTICLES IN AN IONIZED FIELD
COMPT. REND. 193, P 1068-70 (1931)
CHARGING
ELECTRIC FIELD

701 PAUTHENIER, M., ET AL.
ELECTRIFIED SPACE CONTAINING MATERIAL PARTICLES
COMPT. REND. 199, P 189-90 (1934)
CHARGING
ELECTRIC FIELD

702 PAUTHENIER, M., ET AL.
MOTION OF A HEAVY SPHERE IN AN IONIZED ELECTRIC FIELD
COMPT. REND. 194, P 260-3 (1932)
ELECTRIC FIELD
PARTICLE MIGRATION VELOCITY

703 PAUTHENIER, M., ET AL.
SPHERICAL PARTICLES IN AN IONIZED FIELD
J. DE PHYSIQUE 3, P 590-613 (1932)
CHARGING
ELECTRIC FIELD
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RESISTIVITY, SEE ALSO BACK CORONA

704 PEEK, F. W.
DIELECTRIC PHENOMENA IN HIGH VOLTAGE ENGINEERING
3RD ED., MCGRAW-HILL, NEW YORK, (1929)
BACK CORONA, SEE ALSO RESISTIVITY
ELECTRIC FIELD
GASEOUS DISCHARGE

705 PEGG, E. H. R.
DUST CONTROL BY COMBINED CENTRIFUGAL AND ELECTROSTATIC PRINCIPLES
HEAT. VENT. 44, P 78-80 (MAY, 1947)
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
PARTICLE CHARACTERISTICS

706 PENNEY, G. W.
SOME PROBLEMS IN THE APPLICATION OF THE DEUTSCH EQUATION TO IND. ELECTROSTATIC PRECIPITATION
J. AIR POLL. CONTROL ASSOC. 19, NO. 8, P 596-600, (AUG., 1969)
EFFICIENCY
GAS FLOW
PARTICLE CHARACTERISTICS

707 PENNEY, G. W.
ELECTROSTATIC PRECIPITATION STUDIES AT CARNEGIE INST. OF TECHNOLOGY
J. AIR POLLUTION CONTROL ASSOC. 17, P 588-9 (1967)

PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RE-ENTRAINMENT

708 PENNEY, G. W.
INTERPRETATION OF MEASUREMENTS IN ELECTROSTATIC PRECIPITATION
PROC. ENG. SEMINAR ON ELEC. PPTR., PENN. STATE UNIV. (1957)
EFFICIENCY
GAS FLOW
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
TWO-STAGE PRECIPITATORS

709 PENNEY, G. W.
ROLE OF ADHESION IN ELECTROSTATIC PRECIPITATION
ARCH. ENVIRON. HEALTH 4, P 301-5 (MARCH, 1962)
EFFICIENCY
ELECTRIC FIELD
PARTICLE CHARACTERISTICS
RAPPING AND VIBRATING
RE-ENTRAINMENT

710 PENNEY, G. W.
WEAKNESS IN THE CONVENTIONAL THEORY OF ELECTROSTATIC PRECIPITATION
AM. SOC. MECH. ENGRS. PREPRINT NO. 67-WA/APC-1 (NOV., 1967)
ASH
BACK CORONA, SEE ALSO RESISTIVITY
COLLECTING ELECTRODES
GAS FLOW
RAPPING AND VIBRATING
RE-ENTRAINMENT
RESISTIVITY, SEE ALSO BACK CORONA

711 PENNEY, G. W.
A NEW ELECTROSTATIC PRECIPITATOR
ELEC. ENG. 56, P 159-63 (1937), ELEC. J. 34, P 313-17 (1937)
ABSTR - MECH ENG 59, P 444 (1937) ETC.
AIR CLEANING
EFFICIENCY
ELECTRIC FIELD
GASEOUS DISCHARGE
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
TWO-STAGE PRECIPITATORS

712 PENNEY, G. W., ET AL.
PULSED DISCHARGES PRECEDING SPARKOVER AT LOW VOLTAGE GRADIENTS
AMER. INST. ELEC. ENGRS. MEETING, NYC., PAPER NO. 61-91, (JAN. - FEB., 1961)
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE

713 PENNEY, G. W., ET AL.
MEASUREMENT OF CHARGE IMPARTED TO FINE PARTICLES BY A CORONA

DISCHARGE
TRANS. AM. INST. ELEC. ENGRS. I (COMM. ELECTRON) 76,
P 294-9 (1957)
CHARGING
ELECTRIC FIELD
PARTICLE CHARACTERISTICS

714 PENNEY, G. W., ET AL.
SOME EFFECTS OF LARGE PARTICLES IN ELECTROSTATIC PRECIPITATION
INST. ELECTRIC ELECTRON ENGRS. INTERN. CONV. REC. 12, PT. 4,
P 164-7, (1964)
EFFICIENCY
PARTICLE CHARACTERISTICS
RE-ENTRAINMENT

715 PENNEY, G. W., ET AL.
SPARKOVER AS INFLUENCED BY SURFACE CONDITIONS IN D-C CORONA
TRANS. AM. INST. ELEC. ENGRS. (COMMUN. ELECTRON) 79, PART 1,
P 112-118 (1960)
BACK CORONA, SEE ALSO RESISTIVITY
GASEOUS DISCHARGE
RESISTIVITY, SEE ALSO BACK CORONA

716 PENNEY, G. W., ET AL.
BACK IONIZATION IN ELECTROSTATIC PRECIPITATION
PUBL. NO. NP-1618, UNDATED, PROB. 1950, NSA
BACK CORONA, SEE ALSO RESISTIVITY
CONDITIONING
EFFICIENCY
RESISTIVITY, SEE ALSO BACK CORONA
WET PRECIPITATORS

717 PENNEY, G. W., ET AL.
SOME MEASUREMENTS OF ABNORMAL CORONA
TRANS. AM. INST. ELEC. ENGRS. 77, PART 1, COMMUN. ELECTRON,
P 319-27 (JUNE, 1958)
CHARGING
GASEOUS DISCHARGE
RESISTIVITY, SEE ALSO BACK CORONA

718 PENNEY, G. W., ET AL.
CONTACT POTENTIALS AND THE ADHESION OF DUST
TRANS. AM. INST. ELEC. ENGRS. 81, COMMUN. ELECTRON, P 200-4
(JULY, 1962)
CONDITIONING
ELECTRIC FIELD
RE-ENTRAINMENT
RESISTIVITY, SEE ALSO BACK CORONA

719 PENNEY, G. W., ET AL.
POTENTIALS IN D-C CORONA FIELDS
TRANS. AM. INST. ELEC. ENGRS. (COMMUN ELECTRON) 79, PART 1,
P 91-9 (1960)
ELECTRIC FIELD
GASEOUS DISCHARGE

720 PENNEY, G. W., ET AL.

ELECTROSTATIC PRECIPITATION
MECH. ENG. 90, P 32-7 (OCT., 1968) DISCUSSION 90, P 82-3 (NOV., 1968)
ASH
COAL-FIRED BOILERS
CONDITIONING
DUST DISPOSAL
EFFICIENCY
TEMPERATURE EFFECT
POWER PLANT
RAPPING AND VIBRATING
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

721 PENNEY, G. W., ET AL.
ELECTROSTATIC PRECIPITATION IN THEORY AND PRACTICE
ENGRS. DIGEST 29, P 61-5 (DEC., 1968)
ASH
BACK CORONA, SEE ALSO RESISTIVITY
COAL-FIRED BOILERS
CONDITIONING
EFFICIENCY
GASEOUS DISCHARGE
TEMPERATURE EFFECT
POWER PLANT
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

722 PERRY, H., ET AL.
AIR POLLUTION AND THE COAL INDUSTRY
TRANS. SOC. MIN. ENGRS. 238, P 337-45, (DEC., 1967)
ASH
COAL-FIRED BOILERS
COAL PROCESSING
COKE OVENS, SEE ALSO IRON AND STEEL
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

723 PETROLL, J., ET AL.
ELECTROFILTERS SEPARATION OF CARBON BLACK
CHEM. TECH. (BERLIN) 18, NO. 1, P 21-24, (1966)
AGGLOMERATION
CARBON BLACK, SEE ALSO CHEMICAL PROCESSES
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
EFFICIENCY
PILOT PLANT

724 PIER, H. M.
APPLICATIONS OF ELECTRICAL PRECIPITATION TO GAS CLEANING PROBLEMS IN THE STEEL INDUSTRY
PROC. ENG. SEMINAR, UNIV. PARK, PENN. (JUNE, 1956)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
BLAST FURNACE, SEE ALSO IRON AND STEEL
BESSEMER CONVERTER

COKE OVENS, SEE ALSO IRON AND STEEL
ELECTRIC ARC FURNACE
FERRO-MANGANESE
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
SINTERING MACHINES, SEE ALSO IRON AND STEEL

725 PIER, H. M., ET AL.
CATCHING PULVERIZED COAL ASH AT THE TRENTON CHANNEL PLANT BY COTTRELL ELEC. PPTR.
POWER 65, NO. 22, P 834-37, (MAY 31, 1927)
ASH
COAL-FIRED BOILERS
EFFICIENCY
PARTICLE CHARACTERISTICS

726 PILPEL, N.
DUST CONTROL IN THE CEMENT INDUSTRY
BRITISH CHEM. ENG. 7, P 258-63, (APRIL, 1962)
CEMENT
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.

727 PILPEL, N.
INDUSTRIAL GAS CLEANING
BRIT. CHEM. ENG. 5, P 542-50 (1960)
CONDITIONING
EFFICIENCY
GAS FLOW
PRESSURE EFFECT
TEMPERATURE EFFECT
PARTICLE MIGRATION VELOCITY
RAPPING AND VIBRATING
RESISTIVITY, SEE ALSO BACK CORONA

728 PISTOR, R.
SOME REASONS FOR UNSATISFACTORY OPERATION OF DUST REMOVAL PLANTS
STAUB (ENGL. TRANSL) 26, NO. 4, P 41-4 (1966)
CONDITIONING
GAS FLOW

729 PLASS, ROBERT J.
COMPARISONS OF THE COTTRELL ELEC. PPTR. AND THE SILICONE GLASS BAG FILTER IN THE CEMENT IND.
ELEC. PPTR. 1959-1960, ENG. PROC. P 37, P 137-145, (DEC.,1960) (ENG. SEM. ON ELEC. PPTR. AT PENN. ST. UNIV. JUNE,1960)
CEMENT
ECONOMICS
EFFICIENCY

730 PLASS, ROBERT J.
INTERESTING FACETS OF KILN DUST COLLECTION IN THE CEMENT INDUSTRY
ELEC. PPTR. 1959-1960, ENG. PROC. P 37, P 22-28, (DEC.,1960) (ENG. SEM. ON ELEC. PPTR. AT PENN. ST. UNIV. JUNE,1960)
ELECTRIC FIELD

DUST DISPOSAL

731 PLASS, R. J.
COMPARISON OF ELECTROSTATIC PRECIPITATION AND GLASS BAGHOUSE COLLECTORS
NONMETALLIC MINERALS PROCESSING (FEB. 1961)
CEMENT
ECONOMICS
EFFICIENCY
TEMPERATURE EFFECT

732 PLASS, R. J., ET AL.
ELECTROSTATIC PRECIPITATORS IN CEMENT INDUSTRY
PROC. ENG. SEMINAR ON ELEC. PPTR., PENN. ST. UNIV. (1957), ROCK PROD. 61, P 104-5+ (1958)
CATALYTIC PROCESSES, SEE ALSO PETROLEUM REFINING

733 PODOSINKEN, P. A., ET AL.
PURIFICATION OF WASTE WATERS RESULTING FROM WASHING OF THE ELEC FILTERS OF LIME KILNS
KHIM. PROM. NAUK. TEKHN. ZB. (1963) (3), P 82-84
LIME

734 POHL, HERBERT A.
THE MOTION AND PPTR. OF SUSPENSOIDS IN DIVERGENT ELEC. FIELDS
REPRINTED FROM JOUR. APPLIED PHYSICS 22, NO. 7, P 869-871, (JULY, 1951)
ELECTRIC FIELD
PARTICLE MIGRATION VELOCITY

735 POLLACK, H. C., ET AL.
THE EFFECT OF PRESSURE ON THE POSITIVE POINT-TO-PLANE DISCHARGE IN N2, O2, CO2, SO2, SF6, CCL2F2, A, HE, AND H2
PHYS. REV. 56, P 170-5, (1939)
GASEOUS DISCHARGE
PRESSURE EFFECT

736 POTTINGER, J.F.
FACTORS AFFECTING DUST RE-ENTRAINMENT IN A TUBULAR-TYPE ESP
CERL LAB REPORT NO. 609, OCT 1955
RE-ENTRAINMENT

737 PRABHAKAR, B. S., ET AL.
DESIGN OF AN ELEC. PPTR. MONITORING SYSTEM FOR RUPTURED FUEL ELEMENT DETECTION
PUBL. NO. A/CONF. 28/P/791, NSA (MAY, 1964)
RADIOACTIVE

738 PRINZ, H.
A THEORETICAL ANALYSIS OF D-C CORONA IN A COAXIAL CYLINDRICAL FIELD
ARCHIV. FÜR ELEKTROTECH. 31, P 756-766, (1937)
GASEOUS DISCHARGE

739 PUNCH, G.
L D AND KALDO FUME CLEANING (CONSETT DEVELOPMENTS)

IRON STEEL (LONDON) 38, NO. 2, P 75-80,86, (FEB., 1965)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
COLLECTING ELECTRODES
CONDITIONING
DISCHARGE ELECTRODE
IRON AND STEEL
RAPPING AND VIBRATING

740 PUNCH, G.
ELIMINATION OF FUMES IN IRON AND STEEL INDUSTRY
STEEL INTERNATIONAL 3, NO. 12, P 8-18 (1967)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
DUST DISPOSAL
ELECTRIC ARC FURNACE
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
RAPPING AND VIBRATING
RE-ENTRAINMENT
SINTERING MACHINES, SEE ALSO IRON AND STEEL

741 PUNCH, G.
EXPERIENCE IN COLL. OF IRON OXIDE FUME FROM IRON AND STEEL-MAKING PROCESSES BY ELECTROFILTERS IN FOUND.
FOUNDRY TRADE J. 123, P 101-7 (JULY, 19 7)
COLLECTING ELECTRODES
CONDITIONING
CORROSION
ELECTRIC ARC FURNACE
FOUNDRIES
IRON AND STEEL
RESISTIVITY, SEE ALSO BACK CORONA

742 PUTZ, R.
ELECTROFILTERS FOR RAW MATERIAL DRYING AND GRINDING MILLS
ZEMENT-KALK-GIPS 18, P 125-8 (MARCH, 1965)
CATALYTIC PROCESSES, SEE ALSO PETROLEUM REFINING
CONDITIONING
ECONOMICS

743 QUACK, R.
ELECTRICAL DUST PRECIPITATION FROM WASTE GASES
MITT. VEREIN. GROSSKESSELBESITZER NO. 107, P 77-91 (1967)
ASH
CEMENT
CONTROLS
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RESISTIVITY, SEE ALSO BACK CORONA
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

744 RAGLAND, BEN
A-P - SELECTING CONTROL EQUIP BY COMPUTER ANALYSIS
AM. POWER CONF., APRIL 1969
CONTROLS

745 RAICHLE, L., ET AL.
DUST REMOVAL PRACTICE IN THE CHEMICAL INDUSTRY
STAUB 25, P 139-47 (APRIL, 1965), STAUB (ENG. TRANS.) 25, P 1+ (APRIL, 1965)
CHEMICAL PROCESSES

746 RAMADAN, O. E., ET AL.
A STUDY OF THE EFFECTS OF ELECTRIC WIND IN AN ELECTROSTATIC PRECIPITATOR
PAPER NO. 69-1, AIR POLLUTION CONTROL ASSOC., (1969)
EFFICIENCY
ELECTRIC WIND
GAS FLOW
RE-ENTRAINMENT

747 RAMSDELL, ROGER ET AL.
RAVENSWOOD CONVERSION TO COAL
PROC. AM. POWER CONF. 29 CHICAGO, ILL. P 495-512 (APR 1967)
ASH
COAL-FIRED BOILERS
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
DUST DISPOSAL
EFFICIENCY
TEMPERATURE EFFECT

748 RAMSDELL, ROGER, ET AL.
ANTI-POLLUTION PROGRAM OF CON-ED CO. OF NEW YORK
AM. SOC. CIVIL ENGRS., ENVIRONMENTAL ENG CONF., MAY 1968
COAL-FIRED BOILERS
POWER PLANT

749 RAMSDELL, R. G.
THE PREDICTION OF FLY ASH PPTR. EFFICIENCIES
A.I.E.E. CONFERENCE PAPER CP 61-399, 9 P, (JAN.,1961)
ASH
COAL-FIRED BOILERS
EFFICIENCY
POWER PLANT

750 RAMSDELL, R. G.
DESIGN CRITERIA FOR PRECIPITATORS FOR MODERN CONTROL STATION POWER PLANTS
PROC. AM. POWER CONF. 30, (APRIL, 1968) ABSTR. COMBUSTION 39, P 32-3 (1968)
COAL-FIRED BOILERS
EFFICIENCY
GAS FLOW
PARTICLE MIGRATION VELOCITY
POWER PLANT
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING

751 RAMSDEN, A. R.
APPLICATION OF ELECTRON MICROSCOPY TO THE STUDY OF PULVERIZED COAL COMBUSTION AND FLY ASH FORMATION
J. INST. FUEL 41, P 451-4, (1968)

AEROSOL SAMPLERS & ANALYZERS
ASH
PARTICLE CHARACTERISTICS

752 RANDOLPH, S. W.
A STUDY OF GAS DISTRIBUTION IN ELECTROSTATIC PRECIPITATORS
PROC. AIR POLLUTION CONTROL ASSOC., P 70-8, (1953), AIR REPAIR 3, P 70-8 (1953)
GAS FLOW

753 RANDOLPH, S. W., ET ALL.
SPEC REQ FOR DESIGN OF ELEC OR COMB MECH-ELEC COLL FOR FLY ASH COLL FROM BOILER GASES ELEC PPTR SUB-COMM
J. AIR POLLUTION CONTROL ASSOC. 8, P 249-254 (1958)
ASH
COAL-FIRED BOILERS
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
RESISTIVITY, SEE ALSO BACK CORONA

754 RAPINAT, M. R.
PRACTICAL DESIGN OF ELECTROSTATIC PRECIPITATORS
TECH. MOD. 46, NO. 11, P 420-1, (1954)
ELECTRICAL ENERGIZATION

755 RATHGEBER, F.
DUST EXTRACTION FROM WASTE GASES OF REFUSE AND GARBAGE INCINERATION
WASSER LUFT BETR. 13, NO. 2, P 46-50, (FEB., 1969)
INCINERATION

756 REESE, J. T., ET AL.
ELECTROSTATIC PRECIPITATION EXPERIENCE
MECH. ENG. 90, NO. 10, P 34-7 (1968)
AMMONIA SEE ALSO CONDITIONING
ASH
COAL-FIRED BOILERS
CONDITIONING
EFFICIENCY
TEMPERATURE EFFECT
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

757 REESE, J. T., ET AL.
EXPERIENCE WITH ELECTROSTATIC FLY ASH COLL. EQUIP. SERVING STEAM ELECTRIC GENERATING PLANTS
AM. SOC. MECH. ENGRS PREPRINT NO. 67-WA/APC-3 (1967) J. AIR POLL. CONT. ASSOC. 18, P 523-8 (1968), ETC.
ASH
COAL-FIRED BOILERS
EFFICIENCY
GAS FLOW
TEMPERATURE EFFECT
POWER PLANT
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

758 REFFAY, R.

CHARGING OF DIELECTRIC SPHERICAL PARTICLES IN A MONO- AND BI-IONIZED ELECTRIC FIELD
COLLOQ. INTERN. CENTRE NATL. RECH. SCI. 102 P 255-62 (1961)
BACK CORONA, SEE ALSO RESISTIVITY
CHARGING
ELECTRIC FIELD
RESISTIVITY, SEE ALSO BACK CORONA

759 REMMERS, K., ET AL.
THE SIGNIFICANCE OF GAS DISTRIBUTION IN ELECTROSTATIC PRECIPITATORS
STAUB 19, P 422-4, (DEC., 1959)
EFFICIENCY
GAS FLOW

760 RIKHTER, L. A.
INFLUENCE OF AERODYNAMIC FACTORS ON OPERATING EFFICIENCY OF AN ELEC. PRECIPITATOR
ELEKT. STANTSII, NO. 10, P 30-5, (1957)
GAS FLOW

761 ROBERTSON, ALFRED C.
METHOD AND APPARATUS FOR STUDYING THE POLLUTION OF ATMOSPHERES
EASTMAN KODAK CO., ROCH, NY, U.S. PATENT 2,310,871 (FEB. 9, 1943), P 7
GASEOUS DISCHARGE
PRESSURE EFFECT

762 ROBERTSON, D. J.
FILTRATION OF COPPER SMELTER GASES AT HUDSON BAY MINING AND SMELTING CO., LTD.
CAN. MINING AND MET BULL (MONTREAL) 53, PP 326-35, MAY 1960
COPPER, SEE ALSO NONFERROUS METALS
TEMPERATURE EFFECT
NONFERROUS METALS
ZINC, SEE ALSO NONFERROUS METALS

763 ROBERTS, L. M., ET AL.
OPERATING EXPERIENCES WITH COTTRELL PRECIPITATORS ON SULFATE RECOVERY FURNACE GASES
PAPER TRADE J. 127, P 45-9 (1948), EXERPTS. PAPER IND. 29, P 1168+ (1947)
EFFICIENCY
PULP AND PAPER

764 ROBERTS, L. M., ET AL.
NEW DEVELOPMENTS IN COTTRELL ELECTRICAL PRECIPITATORS FOR KRAFT STACK GASES
PAPER TRADE J 129, P 94-6 (SEPT. 22, 1949)
CORROSION
DUST DISPOSAL
EFFICIENCY
PULP AND PAPER

765 ROBERTS, L. M., ET AL.
THE DETARRING OF COKE OVEN GAS BY ELEC. PPTRS. IN THE U.S.
FOR PRES. OF FIRST EUROPEAN SYMP. CLEANING OF COKE OVEN

GAS, SAARBRUCKEN, GERMANY (1963)
COKE OVENS. SEE ALSO IRON AND STEEL
ECONOMICS
TAR
SAFETY

766 ROBINSON, M.
COLLECTION AND EROSION MECHANISMS IN ELECTROSTATIC PRECIPITATION
AIR POLLUTION CONTROL ASSOC. MTG., SAN FRANCISCO, (JUNE, 1966)
PAPER NO. 66-123
EFFICIENCY
ELECTRIC WIND
GAS FLOW
PARTICLE CHARACTERISTICS
RAPPING AND VIBRATING
RE-ENTRAINMENT

767 ROBINSON, M.
MOVEMENT OF AIR IN THE ELECTRIC WIND OF THE CORONA DISCHARGE
TRANS. AM. INST. ELEC. ENGRS. (COMMUN. ELECTRON) 80I, P 143,
(1961)
ELECTRIC WIND

768 ROBINSON, M.
CORONA THRESHOLD FOR COAXIAL CYLINDERS IN AIR AT HIGH
PRESSURES
TRANS. INST. ELECTRIC ELECTRON ENGRS., POWER APP. SYSTEMS 86, P 185
(1967)
GASEOUS DISCHARGE
PRESSURE EFFECT

769 ROBINSON, M.
A MODIFIED DEUTSCH EFF. EQUATION FOR ELECTROSTATIC
PRECIPITATION
ATMOS. ENVIRON 1, P 193-204 (MAY, 1967)
EFFICIENCY
GAS FLOW
PARTICLE MIGRATION VELOCITY
RE-ENTRAINMENT

770 ROBINSON, M.
CORONA STARTING VOLTAGES FOR PARALLEL WIRE-PLATE ELECTRODES
INST. ELEC. ELECTRON ENGRS. INTERN. CONV. REC. 13, PART 7,
P 73-6 (1965)
COLLECTING ELECTRODES
DISCHARGE ELECTRODE
GASEOUS DISCHARGE

771 ROBINSON, M.
EFFECT OF POLARITY ON PARTICLE CONCENTRATION PROFILES IN
ELECTROSTATIC PRECIPITATORS
J. AIR POLL. CONT. ASSOC. 18, P 688-90 (1968)
ELECTRIC WIND
GAS FLOW
PARTICLE CHARACTERISTICS

772 ROBINSON, M.

ELECTRIC-WIND TURBULENCE IN ELECTROSTATIC PRECIPITATION
J. AIR POLL. CONT. ASSOC. 17, P 605-6 (1967)
EFFICIENCY
ELECTRIC WIND
GAS FLOW

773 ROBINSON, M.
ORIGINS OF ELECTROSTATIC PRECIPITATION
ELEC. ENG. 82, P 559-64 (1963)
HISTORY

774 ROBINSON, M.
TURBULENT GAS FLOW AND ELECTROSTATIC PRECIPITATION
J. AIR POLL. CONT. ASSOC. 18, P 235-9 (APRIL, 1968)
EFFICIENCY
ELECTRIC WIND
GAS FLOW
PARTICLE MIGRATION VELOCITY

775 ROBINSON, M.
ELECTROSTATIC PRECIPITATION
AIR POLLUTION CONTROL, W. STRAUSS ED., INTERSCIENCE PRESS, N.Y.
(1970) CHAPTER V
BOOKS ON ESP, ALSO EXTENDED TREATMENT OF ESP

776 ROCKELSHAUSEN, K.
THE REMOVAL OF DUST DEPOSITS FROM FLAT PLATES BY RAPPING OR
VIBRATING
DR-ING. DISSERTATION, TECHNISCHE HOCHSCHULE, STUTTGART, (1957)
RAPPING AND VIBRATING

777 ROGUS, C. A.
CONTROL OF AIR POLLUTION AND WASTE HEAT RECOVERY FROM
INCINERATION
PUBLIC WORKS 97, NO. 6 P 100-5 (1966)
TEMPERATURE EFFECT
IRON AND STEEL
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.

778 ROSE, A. H.
AIR POLLUTION EFFECTS OF INCINERATOR FIRING PRACTICE AND COMBUSTION
AIR DISTRIBUTION
J. AIR POLLUTION CONTROL ASSOC. 8, 297-309, FEB. 1959
AEROSOL SAMPLERS & ANALYZERS
GAS FLOW
INCINERATION

779 ROSE, H.E., ET AL.
AN INTRODUCTION TO ESP IN THEORY AND PRACTICE
1ST ED., LONDON, CONSTABLE, 1956
2ND ED., LONDON, CONSTABLE, 1964
BOOKS ON ESP, ALSO EXTENDED TREATMENT OF ESP

780 RUB, F.
FLUE GAS PURIFICATION IN POWER STATIONS
WASSER LUFT BETR 10, P 212-6 (APR. 1966)

ASH
COAL-FIRED BOILERS
POWER PLANT

781 RUHLAND, E.
DISCHARGE OF DUST AND GASES IN THE CEMENT INDUSTRY
STAUB 21, P 91-94 (1961)
CEMENT

782 RUPING, GERHARD
THE IMPORTANCE OF ISOKINETIC SUCTION IN DUST FLOW MEASUREMENT BY MEANS OF SAMPLING PROCESS
STAUB 28, NO.4 P 137-144 (1968)
AEROSOL SAMPLERS & ANALYZERS
PARTICLE CHARACTERISTICS

783 RYAN, H. J., ET AL.
THE HYSTERESIS CHARACTER OF CORONA FORMATION
TRANS. AM. INST. ELEC. ENGRS. 43, P 1118-24 (OCT 1924)
GASEOUS DISCHARGE

784 SAKURADA, T.
DUST COLLECTION IN OPEN HEARTH PLANT
J. FUEL SO. JAPAN 43, P 770-4 (NOV. 1964)
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

785 SAMUILOV, E. V.
ELECTROCONDUCTIVITY OF DUST LADEN GASES
AKADEMIYA NAUK, DO KLADY, 166, NO. 6, P 1397 (1966)
CHARGING
ELECTRIC FIELD
GASEOUS DISCHARGE
RESISTIVITY, SEE ALSO BACK CORONA

786 SARGENT, G.D.
DUST COLLECTION EQUIPMENT
CHEM. ENG. 76, NO. 2, P 130-50 (1969)
ECONOMICS
PARTICLE CHARACTERISTICS

787 SARNA, M.
TESTING OF ACCELERATIONS OF COLLECTING ELECTRODES IN ELECTROFILTERS
ENERGETYKA 22, P 124-7 (APR 1968)
COLLECTING ELECTRODES
RAPPING AND VIBRATING

788 SAYERS, J.E.
ELECTRO-PRECIPITATORS - PRACTICAL DESIGN ASPECTS
J. INST. FUEL 33, P 542-50 (1960)
ASH
COAL-FIRED BOILERS
COLLECTING ELECTRODES
CONDITIONING
DISCHARGE ELECTRODE

DUST DISPOSAL
IRON AND STEEL
MAINTENANCE
RESISTIVITY, SEE ALSO BACK CORONA

789 SAYERS, J. E.
ELECTROSTATIC PRECIPITATORS - SOME DESIGN AND OPERATING PROBLEMS
PROC. INST. ELEC. ENGRS. 107, PT. A, P 108-9, (APR., 1960)
ASH
CONTROLS
DISCHARGE ELECTRODE
RADIOACTIVE
RESISTIVITY, SEE ALSO BACK CORONA

790 SCHAEFFER, J. L.
PRECIPITATION PROBLEMS ON BLAST FURNACE GAS CLEANING
ENGINEERING SEMINAR ON ESP, PENNA STATE UNIV (1955)
BLAST FURNACE, SEE ALSO IRON AND STEEL
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
ELECTRICAL ENERGIZATION
IRON AND STEEL
PILOT PLANT
ZINC, SEE ALSO NONFERROUS METALS

791 SCHAFF, K.
COMBINATION FLUE-GAS COLLECTORS FOR BOILERS
MITT. VEREIN. GROSSKESSELBESITZER, NO. 65, P 88-91, (1960)
ASH
COAL-FIRED BOILERS
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
ECONOMICS

792 SCHARER, O.
TECHNICAL PRECIPITATION AND ITS PHYSICAL BASIS
SCHWEIZ. BAUZTG. 124, P 53-9, (JULY 29, 1944)
CHARGING
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
EFFICIENCY
GAS FLOW
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

793 SCHEIDEL, K.
ELECTRICAL GAS CLEANING IN HEAVY INDUSTRY
METALLGES. MITT. NO. 4, P 33-44, (1962)
BLAST FURNACE, SEE ALSO IRON AND STEEL
CEMENT
COAL-FIRED BOILERS
COKE OVENS, SEE ALSO IRON AND STEEL
CUPOLA
FOUNDRIES
IRON AND STEEL
PARTICLE CHARACTERISTICS
SINTERING MACHINES, SEE ALSO IRON AND STEEL
TAR
WET PRECIPITATORS

794 SCHILLING, W.
TRANSISTOR-CONTROLLED OR REGULATED HIGH-VOLTAGE RECTIFIER FOR ELECTRIC GAS CLEANING
ENERGIE 7, NO. 12, P 484-7, (1955)
CONTROLS
ELECTRICAL ENERGIZATION

795 SCHLAWIN, R. G.
THE APPLICATION OF SELENIUM RECTIFIERS TO POWER SUPPLIES FOR ELECTRICAL PRECIPITATION
A.I.E.E. CONF. PAPER NY, P 1-5, (JAN. 19-23, 1953)
ELECTRICAL ENERGIZATION

796 SCHLITT, R., ET AL.
THYRISTORS IN VOLTAGE CONTROLLERS FOR ESP'S
SIEMENS-Z. 39, P 229-30 (MARCH 1965)
CONDITIONING
ELECTRICAL ENERGIZATION

797 SCHMIDT, K. R.
STATUS AND APPARATUS LIMITS FOR INDUSTRIAL FINE DUST COLLECTION
STAUB 23, P 181-95 (1963)
EFFICIENCY
PARTICLE CHARACTERISTICS

798 SCHMIDT, W. A. ET AL.
PRINCIPLES OF DESIGN, APPLICATION, PERFORMANCE & LIMITATIONS OF ELECTRIC PRECIPITATION EQUIPMENT
SYMPOSIUM U.S. TECH. CONF. AIR POLLUTION (MAY 1950)
CARBON BLACK, SEE ALSO CHEMICAL PROCESSES
CEMENT
CHEMICAL PROCESSES
IRON AND STEEL
NONFERROUS METALS
PULP AND PAPER
PETROLEUM REFINING
POWER PLANT

799 SCHMITZ, F. W.
ESP UP TO 1300F AND 100 PSIG - PILOT-PLANT TESTS ON FLUIDIZED-BED COAL COMBUSTION
RESEARCH-COTTRELL REPORT EDR63-3, 1963
ASH
COAL-FIRED BOILERS
PRESSURE EFFECT
TEMPERATURE EFFECT

800 SCHMITZ, L. S., ET AL.
SPARKOVER IN MIXTURES OF AIR AND WATER VAPOR
TRANS. INST. ELECTRIC ELECTRON ENGRS. POWER APP. SYSTEMS 86, P 360, (1967)
CONDITIONING
GASEOUS DISCHARGE

801 SCHMOLLING, G.
DUST REMOVAL FROM REFUSE INCINERATION PLANTS. TECHNICAL POSSIBILITIES

& OPERATING EXPERIENCES WITH AN ESP
AUFBEREITUNGS-TECH. 8 P 275-8 (MAY 1967)
COLLECTING ELECTRODES
ECONOMICS
EFFICIENCY
GAS FLOW
INCINERATION
PARTICLE CHARACTERISTICS

802 SCHMOLLING, G.
STATE OF CURRENT DEDUSTING TECHNOLOGY IN LARGE BOILER PLANTS
LUFTVEREINIGUNG, P 33-5 (DEC. 1967)
ASH
COAL-FIRED BOILERS

803 SCHNEIDER, R.L.
ENGINEERING, OPERATION & MAINTENANCE OF ESP'S ON OPEN-HEARTH FURNACES
JAPCA 13, P 348-53 (AUG. 1963)
IRON AND STEEL
MAINTENANCE
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

804 SCHNITZLER, HERMAN
FURTHER TESTS WITH A NEW ELEC. PPTR.
STAUB (ENGL. TRANSL) 25 (3) P 43-5 (1965)
ASH
COAL-FIRED BOILERS
COLLECTING ELECTRODES
CUPOLA
DISCHARGE ELECTRODE
EFFICIENCY
IRON AND STEEL
PILOT PLANT
WET PRECIPITATORS
CONDITIONING
RAPPING AND VIBRATING

805 SCHNITZLER, H.
ON THE SPEED OF CHARGING OF DUST IN A CORONA FIELD
STAUB 16, P 221-36, (1955)
CHARGING
GASEOUS DISCHARGE

806 SCHNITZLER, H.
A NEW KIND OF ELECTRIC DUST COLLECTOR
STAUB 23, P 78-83 (FEB. 1963)
COLLECTING ELECTRODES
EFFICIENCY
GAS FLOW
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
PILOT PLANT

807 SCHNITZLER, H.
DRY ELECTROFILTER FOR CLEANING GAS FROM HOT BLAST CUPOLA FURNACE
STAUB 24, P 201-5 (JUNE 1964)

CONDITIONING
CUPOLA
IRON AND STEEL
RESISTIVITY, SEE ALSO BACK CORONA

808 SCHNITZLER, K., ET AL.
EFFECT OF ELECTRIC CHARGE ON THE AGGLOMERATION OF DUST
STAUB 21, NO. 6, P 241-6 (1961)
AGGLOMERATION
CHARGING
PARTICLE CHARACTERISTICS

809 SCHON, G., ET AL.
ON THE EXPANSION AND SHRINKAGE OF SPACE-CHARGE CLOUDS
BRIT. J. APPL. PHYS. SER. 2, 2, P 115-21
(JAN. 1969)
CHARGING
ELECTRIC FIELD
RESISTIVITY, SEE ALSO BACK CORONA

810 SCHRADER, K.
IMPROVEMENT OF THE SEP. EFFICIENCY OF ELEC. PREC. BY INJECTION
OF SO3 INTO THE FLUE GASES
MITT. VEREIN GROSSKESSELBESITZER 48, P 430-436, (DEC 1968)
EFFICIENCY
CONDITIONING
SULFUR OXIDES, SEE ALSO CONDITIONING

811 SCHRODER, E. W.
DUST COLLECTION PRACTICE IN THE CEMENT INDUSTRY
PROC. CLEAN AIR CONF., UNIV. N. S. WALES, PAPER NO. 17,
11 P (1962)
CEMENT
ECONOMICS

812 SCHROTER, K.
NEW METHOD OF DESIGNING ELECTROPRECIPITATORS WITH HELP OF STATISTICS
STAUB 28, NO. 10, P 395-8 (OCT. 1968)
EFFICIENCY
PARTICLE MIGRATION VELOCITY

813 SCHULTE-HERBRUGGEN, F.
A NOVEL ELECTROSTATIC TAR PRECIPITATOR
BRENNSTOFF-CHEM. 40, P 201-02 (1959)
TAR

814 SCHULZ, R.
HIGH-VOLTAGE EQUIPMENT FOR ELECTROSTATIC PRECIPITATORS
ELEKTRIZITATSWIRTSCHAFT 62, P 260-3 (APR 20, 1963)
CONTROLS
ELECTRICAL ENERGIZATION

815 SCHUMMER, H., ET AL.
VOLTAGE CONVERTING PLANTS FOR ELECTROSTATIC PRECIPITATORS
SIEMENS REV. 34, P 458-63 (DEC. 1967)
CONTROLS

ELECTRICAL ENERGIZATION

816 SCHUTZ, A.
ELECTRICAL SEPARATION OF FINE IRON-OXIDE SMOKE AT HIGH GAS TEMPERATURES
STAUB 23, NO. 2, P 76-7, (1963)
TEMPERATURE EFFECT
IRON AND STEEL
PARTICLE CHARACTERISTICS

817 SCHUTZ, A.
THE ELECTRICAL CHARGING OF AEROSOLS
STAUB 27, 12 (DEC. 1967) PP 24-31
CHARGING
GAS FLOW
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

818 SCHWARZ, E., ET AL.
CONTROLLING THE VOLTAGE OF ELECTROSTATIC PRECIPITATORS
SIEMENS-Z. 35, P 387-92, (MAR., 1961)
CONTROLS
ELECTRICAL ENERGIZATION

819 SCHWARZ, E., ET AL.
CONTROLLING VOLTAGES OF ELECTROSTATIC PRECIPITATORS
SIEMENS REV. 29, P 313-7 (SEPT. 1962)
CONTROLS

820 SCHWARZ, E., ET AL.
POWER SUPPLY FOR ELECTRIC FILTER INSTALLATIONS
SIEMENS-Z. 31, P 607-12 (DEC. 1957) 32, P 9-17 (1958)
ELECTRICAL ENERGIZATION

821 SCHWARZ, K.
FLY ASH SEPARATION IN MODERN, COAL-FIRED, HIGH-CAPACITY STEAM PLANTS
TECHNICAL HOUSE NO. 86 (1966) GERMAN
ASH
COAL-FIRED BOILERS

822 SCHWEITZER, H.
CHARGING OF PARTICLES SUSPENDED IN A CORONA DISCHARGE
ANN. PHYSIK 4, P 33-48 (1930)
CHARGING
GASEOUS DISCHARGE
PARTICLE CHARACTERISTICS

823 SCHWERTLER, ET AL.
DUST REMOVING PLANT AT THE DONAWITZ STEELWORKS
STEEL (BRUSSELS) 23, P 437-8, (1958)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
CONDITIONING
TEMPERATURE EFFECT
IRON AND STEEL

824 SEELIGER, R.

THE PHYSICAL THEORY OF ELECTRICAL GAS PURIFICATION
Z. TECH. PHYSIK 7, NO. 2, P 49-71 (1926)
CHARGING
ELECTRIC FIELD
GASEOUS DISCHARGE
PARTICLE MIGRATION VELOCITY

825 SEIDEL, W., ET AL.
MABA-TRON ELECTROFILTER - A NEW ELECTROFILTER WITH AUTOMATIC ELECTRODE CLEANING AND CONSTANT PRECIPITATION EFFICIENCY
STAUB 24, P 405-7 (OCT. 1964)
COLLECTING ELECTRODES
DISCHARGE ELECTRODE
EFFICIENCY
IRON AND STEEL
LIME
MAINTENANCE
TAR

826 SEMAN, G.W., ET AL.
PHOTOGRAPHIC RECORDS OF PARTICLE TRAJECTORIES DURING ELECTROSTATIC PRECIPITATION
INST. ELECTRIC. ELECTRON. ENGRS. INTERN. CONV. REC. 13, PART 7, P 69-72 (1965)
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RE-ENTRAINMENT

827 SEMAN, G.W., ET AL.
PHOTOGRAPHIC STUDIES OF PARTICLE BEHAVIOR UNDER VARYING PRECIPITATING CONDITIONS
INST. ELECTRIC. ELECTRON. ENGRS. TRANS. ON POWER APP. SYSTS VOL. PAS-86, P 365-8 (MAR. 1967)
BACK CORONA, SEE ALSO RESISTIVITY
GAS FLOW
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RE-ENTRAINMENT
RESISTIVITY, SEE ALSO BACK CORONA

828 SEROV, V.N.
DYNAM APP FOR DETERM OF FORCES OF ADHES OF DUST PTCLS DEP ON SURF OF FLTRS, CYCLO, SETTLING CHMBRS & ELECTRODES IN ESP
COLLOID J. USSR (ENGL. TRANSL. OF KOLLOIDNYI ZHURNAL) 28, NO. 2, P 229-30 (MAR-APR 1966)
RAPPING AND VIBRATING

829 SHALE, C.C.
A COMPREHENSIVE STUDY OF ESP AT HIGH TEMPERATURES AND PRESSURES
APCA PAPER NO. 64-8 (JUNE 1964)
GASEOUS DISCHARGE
PRESSURE EFFECT
TEMPERATURE EFFECT

830 SHALE, C.C.
BUREAU OF MINES HIGH TEMPERATURE ELECTROSTATIC PRECIPITATOR

COMBUSTION 35, P 42-4 (APR, 1964)
ASH
COAL-FIRED BOILERS
TEMPERATURE EFFECT
PILOT PLANT

831 SHALE, C.C.
PROGRESS IN HIGH-TEMPERATURE ELECTROSTATIC PRECIPITATION
APCA PAPER NO. 66-125 (1966) - ABRIDGED IN JAPCA 17, P 159-60 (1967)
EFFICIENCY
GASEOUS DISCHARGE
PRESSURE EFFECT
TEMPERATURE EFFECT

832 SHALE, C.C., ET AL.
CHARACTERISTICS OF POSITIVE CORONA FOR ELECTRICAL PRECIPITATION AT HIGH TEMPERATURES AND PRESSURES
U.S. BUR MINES, REPT. INVEST 6397 NO. 3, 17 PP (1964)
GASEOUS DISCHARGE
PRESSURE EFFECT
TEMPERATURE EFFECT

833 SHALE, C.C., ET AL.
FEASIBILITY OF ELECTRICAL PRECIPITATION AT HIGH TEMPERATURES AND PRESSURES
REPT. INVEST. U.S. BUR.MINES NO. 6325 (1963)
GASEOUS DISCHARGE
PRESSURE EFFECT
TEMPERATURE EFFECT

834 SHALE, C. C.
NEW CONCEPT FOR ELECTRON ATTACHMENT FOR AIR IN NEGATIVE CORONA AT HIGH TEMPERATURE
BUREAU OF MINES INFORMATION CIRCULAR IC 8353, (1967)
GASEOUS DISCHARGE
TEMPERATURE EFFECT

835 SHALE, C. C.
ASH ACCUMULATION ON PRECIPITATOR DISCHARGE WIRES
FOR PRES. AIR POLL. CONT. ASSOC. (1968), ST. PAUL, MINN. APCA PAPER NO. 68-102
BACK CORONA, SEE ALSO RESISTIVITY
ELECTRIC FIELD
GASEOUS DISCHARGE
GAS FLOW
RESISTIVITY, SEE ALSO BACK CORONA

836 SHALE, C. C., ET AL.
ELECTRICAL RESISTIVITY OF FLY ASH AT TEMPERATURES TO 1500 DEGREES F
REPT. OF INVESTIGATIONS 7041, BUREAU OF MINES, (1968)
ASH
TEMPERATURE EFFECT
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

837 SHALE, C. C., ET AL.

ELECTROSTATIC PRECIPITATORS IN NEW OPERATING RANGE
COMBUSTION 32, P 42, (1960)
PRESSURE EFFECT
TEMPERATURE EFFECT

838 SHALE, C. C., ET AL.
OPERATING CHARACTERISTICS OF A HIGH-TEMPERATURE ELECTROSTATIC PRECIPITATOR
U. S. BUREAU OF MINES, REPT. INVEST. RI 7276 (JULY, 1969)
ASH
EFFICIENCY
PRESSURE EFFECT
TEMPERATURE EFFECT

839 SHALE, C. C., ET AL.
THE ROLE OF WIRE SIZE IN NEGATIVE ELECTRICAL DISCHARGE AT HIGH TEMPERATURE
INST. ELEC. ELECTRON ENGRS. TRANS. ON INDUSTRY AND GENERAL APP. IGA-5, NO. 1, P 34-9, (JAN., FEB., 1969)
DISCHARGE ELECTRODE
GASEOUS DISCHARGE
TEMPERATURE EFFECT

840 SHNEERSON, B. L.
DUST COLLECTING IN NON-FERROUS METALLURGY IN THE USSR
DOKLAD K SEMINARU PO PYLEULAVLIVANIYU, MOSCOW, (1960)
P 17
NONFERROUS METALS

841 SICKLES, R.W.
KEY POINT INSPECTION, ELEC INDICATORS SAVE TIME ON FLY ASH PPTR MAINTENANCE
COMBUSTION 32 NO. 9, P 30-32, MARCH 1961
MAINTENANCE

842 SICKLES, R.W.
12 WAYS TO INCREASE THE EFFICIENCY OF YOUR ESP
POWER 111, P 75-8 (NOV. 1967)
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
CONTROLS
EFFICIENCY
ELECTRICAL ENERGIZATION
GAS FLOW
RAPPING AND VIBRATING

843 SICKLES, R.W.
AIR POLLUTION CONTROL - ESP'S
CHEM. ENG. 75, P 156-9 (OCT. 14, 1968)
ALUMINUM, SEE ALSO NONFERROUS METALS
ASPHALT
CARBON BLACK, SEE ALSO CHEMICAL PROCESSES
CATALYTIC PROCESSES, SEE ALSO PETROLEUM REFINING
CEMENT
COPPER, SEE ALSO NONFERROUS METALS
GYPSUM
NONFERROUS METALS

PHOSPHORIC ACID, SEE ALSO CHEMICAL PROCESSES
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

844 SILVERMAN, L.
TECHNICAL ASPECTS OF HIGH TEMPERATURE GAS CLEANING FOR STEEL MAKING PROCESSES
PROC APCA, P 189-96 (1954) - AIR REPAIR 4, P 189-96 (1955)
BLAST FURNACE, SEE ALSO IRON AND STEEL
CONDITIONING
ELECTRIC ARC FURNACE
TEMPERATURE EFFECT
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
SINTERING MACHINES, SEE ALSO IRON AND STEEL

845 SIMM, W.
ELECTRICAL PROPERTIES OF DUSTS WITH RESPECT TO THEIR DEPOSITION IN ESP'S
STAUB 22, P 463-66 - PROPERTIES OF DUSTS
BACK CORONA, SEE ALSO RESISTIVITY
RESISTIVITY, SEE ALSO BACK CORONA

846 SIMM, W.
INVESTIGATION OF BACK CORONA IN ESP
CHEM.-ING.-TECH 31, P 43-9 (JAN. 1959)
BACK CORONA, SEE ALSO RESISTIVITY

847 SIMON, A.W.
ON THE MATHEMATICAL THEORY OF THE COTTRELL ESP
IRON STEEL ENGR. 6, P 143-6 (APR. 1929)
ASSN IRON STEEL ELEC ENGR PROC FOR 1928-1929 P 535
EFFICIENCY
GAS FLOW

848 SIMON, A.W., ET AL.
SOME FUNDAMENTAL THEORY AND EXPERIMENTS ON ESP
TRANS AM INST ELEC ENGRS 51, P 451-64 (JUNE 1932), (ABSTRACTS) ELEC ENG 51, P 93-5 (FEB. 1932) ETC.
EFFICIENCY
GASEOUS DISCHARGE
OIL FUME

849 SIMON, A.W., ET AL.
METHOD OF MAPPING EQUIPOTENTIAL LINES AND ITS APPLICATION TO ELECTRICAL PRECIPITATOR PROBLEMS
REV. SCI. INST. 1, P 527-36 (1930)
ELECTRIC FIELD

850 SIMON, H.
SINGLE STAGE ELECTRICAL PRECIPITATORS
AIR POLLUTION ENGR. MANUAL, J. A. DANIELSON, ED., U.S. PUBLIC HEALTH SERV. PUBL. NO. 999-AP-40, P 135-156, (1967)
CHARGING
COLLECTING ELECTRODES
CONTROLS
DISCHARGE ELECTRODE

ELECTRICAL ENERGIZATION
GAS FLOW
PARTICLE MIGRATION VELOCITY
RAPPING AND VIBRATING
RE-ENTRAINMENT
RESISTIVITY, SEE ALSO BACK CORONA

851 SINCLAIR, W.E.
DUST CONTROL IN ASBESTOS OPERATIONS
ASBESTOS 42, P 2,4,6,8,10 (MAY 1961)
ASBESTOS

852 SKILLING, H. H., ET AL.
THE ELECTRIC STRENGTH OF AIR AT HIGH PRESSURE
TRANS. ELEC. ENGRNG. 60, PART 1 AND 2, P 112-115, (1941)
GASEOUS DISCHARGE
PRESSURE EFFECT

853 SKRZYS, R., ET AL.
DEDUSTING OF WASTE REDUCTION GASES FROM ZINC DISTILLATION FURNACES
RUDY METALE NIEZELAZNE 11, NO. 10, P 519-22, (1966) TEXT IN POL.
MANUFACTURED GAS
ZINC, SEE ALSO NONFERROUS METALS

854 SMIRNOV, A. A.
AUTOMATION OF TRANSFORMING SUBSTATIONS OF ELECTROSTATIC PRECIPITATORS
ENERGETIK, NO. 8, P 4-7, (1956)
CONTROLS

855 SMITH, I. R.
HIGH VOLTAGE SELENIUM RECTIFIERS
ELECTRICAL MANUFACTURING, P 132-33 (MAY 1953)
ELECTRICAL ENERGIZATION

856 SMITH, J.H.
AIR POLLUTION CONTROL IN OXYGEN STEELMAKING
J. METALS 13, P 632-4 (SEPT 1961)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
CONDITIONING
IRON AND STEEL

857 SMITH, J.H.
ESP OF OPEN-HEARTH FURNACE DUST
BLAST FURNACE STEEL PLANT 43, P 58-9 (1955)
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL

858 SMITH, J.H., ET AL.
METHOD OF TESTING OPEN-HEARTH PRECIPITATORS
IRON STEEL ENG 34, P 131-41 (JUNE 1957)
AEROSOL SAMPLERS & ANALYZERS
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

859 SMITH, J.J.

THE REMOVAL OF AEROSOLS, PART 1
IND. CHEMIST 31, P 602-6 (1955)
AIR CLEANING
ASH
CEMENT
CHARGING
COAL PROCESSING
EFFICIENCY
IRON AND STEEL
RADIOACTIVE
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES
TAR
TWO-STAGE PRECIPITATORS

860 SMITH, J. L., ET AL.
ECONOMIC SELECTION OF A HIGH EFF. DUST COLL. FOR A PHOSPHATE ROASTER
PRES AT THE TECH SESSION ON CLEAN. OF IND AND POWER PLNT STACK GASES, AM INST OF CHEM ENG MFG SALT LAKE CITY, (MAY1967)
CORROSION
ECONOMICS
PARTICLE CHARACTERISTICS
PHOSPHORIC ACID, SEE ALSO CHEMICAL PROCESSES

861 SMITH, P.L., ET AL.
CHARGING OF NONSPHERICAL PARTICLES IN THE CORONA DISCHARGE
TRANS. AM. INST. ELEC. ENGRS. (COMMUN. ELECTRON) 80, PART 1, P 340-6 (1961)
CHARGING
ELECTRIC FIELD
PARTICLE CHARACTERISTICS

862 SMITH, W. A., ET AL.
ATMOSPHERIC EMISSIONS FROM COAL COMBUSTION - AN INVENTORY GUIDE
PHS PUBL. 999-AP-24, APR. 1966, 117 PP
ASH
COAL-FIRED BOILERS

863 SMITH, W. M., ET AL.
COLLECTION OF IRON OXIDE FUMES WITH AN ELECTROSTATIC PRECIPITATOR
BLAST FURNACE STEEL PLANT 54, P 830-7 (SEPT., 1966)
GAS FLOW
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

864 SMITH, W. M., ET AL.
FUME COLLECTION IN A STEEL PLANT
CHEM. ENG. PROGR. 62, P 119-23 (JULY, 1966)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
GAS FLOW
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

865 SMITH, W. M., ET AL.
USE OF FLOW MODEL IN DESIGN OF ELECTROSTATIC PRECIPITATOR
BLAST FURNACE STEEL PLANT 55, P 1097-1102 (DEC., 1967)

BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
GAS FLOW
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

866 SMOL'YANINOV, S. I., ET AL.
ELECTROSTATIC DEDUSTING AND DETARRING OF GAS
IZV. TOMSKOGO POLITEKHN. INST. 126, P 91-97, (1964)
TAR

867 SNADER, E. S.
POWER REQUIREMENTS FOR ELECTROSTATIC PRECIPITATION
AIR ENG. 4, P 49-50, (APRIL, 1962)
CONTROLS
ELECTRICAL ENERGIZATION

868 SODHA, M. S., ET AL.
CONDUCTIVITY OF DUST LADEN GASES
BRIT. J. APPL. PHYS. 16, P 721-3 (MAY, 1965)
RESISTIVITY, SEE ALSO BACK CORONA

869 SOKAL'SKII, A. G.
INCREASING THE DEGREE OF PURIFICATION BY ELECTROFILTERS AND
SHORTENING THE PERIOD REQ. FOR THEIR REPAIR
J. CHEM. IND. (USSR) 15, NO. 5, P 48-9 (1938)
EFFICIENCY
MAINTENANCE

870 SOLBACH, W.
SOME RESULTS OF THEORETICAL AND PRACTICAL STUDIES ON WET
DUST SEPARATORS
STAUB 25, P 490-3 (NOV., 1965)
EFFICIENCY
WET PRECIPITATORS

871 SOO, S. L.
EFFECT OF ELECTRIFICATION ON THE DYNAMICS OF A PARTICULATE
SYSTEM
IND. ENG. CHEM. 3,NO. 1, P 75-80 (1964)
ELECTRIC FIELD
GAS FLOW
PARTICLE CHARACTERISTICS

872 SOO, S. L.
FLUID DYNAMICS OF MULTIPHASE SYSTEMS
BLAISDELL, WALTHAM, MASS., (1967), P. 51 FF.
GAS FLOW

873 SOO, S. L., ET AL.
AN ELECTRO-AERODYNAMIC PRECIPITATOR
PAPER NO. 68-104, AIR POLLUTION CONTROL ASSOC., (1968)
CORROSION
RE-ENTRAINMENT
RESISTIVITY, SEE ALSO BACK CORONA
TWO-STAGE PRECIPITATORS
WET PRECIPITATORS

874 SPECHT, S. E., ET AL.
NEW USES OF ELECTRICAL PRECIPITATION FOR CONTROL OF ATMOSPHERIC POLLUTION
PROC. AIR POLL. CONT. ASSOC., P 137-40 (1954), AIR REPAIR 4, P 137-40, 170 (NOV., 1954)
ASH
CEMENT
CUPOLA
FERRO-MANGANESE
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

875 SPEER, E. B.
OPERATION OF ELECTROSTATIC PRECIPITATORS ON OPEN-HEARTH FURNACES AT FAIRLESS WORKS
IRON STEEL INST. (LONDON), SPEC. REPT. NO. 61, P 67-73 (1958)
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL

876 SPENCER, E. F., JR., ET AL.
PHOSPHORIC ACID MANUFACTURING
AIR POLLUTION ENGINEERING MANUAL, J. A. DANIELSON, ED., U.S. PUBLIC HEALTH SERVICE PUBL. 999-AP-40, P 701-04, (1967)
PHOSPHORIC ACID, SEE ALSO CHEMICAL PROCESSES

877 SPROULL, WAYNE T.
REMOVAL OF PARTICULATE MATTER FROM INDUSTRIAL EFFLUENT
STANFORD RES INST 1ST NAT'L AIR POLL SYMP, PASADENA, CAL. NOV 1949, P 80-85
AGGLOMERATION
AIR CLEANING
GAS FLOW
RE-ENTRAINMENT

878 SPROULL, W. T.
POLARITY AND TEMPERATURE EFFECTS IN CORONA FOR CHARGING AEROSOLS
CONF. PAPER CP-57-46, AM. INST. ELEC. ENGRS. (1957)
BACK CORONA, SEE ALSO RESISTIVITY
CHARGING
GASEOUS DISCHARGE
TEMPERATURE EFFECT
RESISTIVITY, SEE ALSO BACK CORONA
TWO-STAGE PRECIPITATORS

879 SPROULL, W. T.
COLL HIGH-RESISTIVITY DUST AND FUMES. LAB PERFORMANCE OF A SPEC TWO-STAGE PPTR.
IND. ENG. CHEM. 47, P 940-4 (1955)
CONDITIONING
PARTICLE MIGRATION VELOCITY
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING
TWO-STAGE PRECIPITATORS

880 SPROULL, W. T.

FUNDAMENTALS OF ELECTRODE RAPPING IN INDUSTRIAL ELECTRICAL PRECIPITATORS
J. AIR POLL. CONT. ASSOC. 15, P 50-5 (1965)
ASH
CEMENT
COPPER, SEE ALSO NONFERROUS METALS
EFFICIENCY
RAPPING AND VIBRATING
RE-ENTRAINMENT
RESISTIVITY, SEE ALSO BACK CORONA

881 SPROULL, W. T.
LAB WIND TUNNEL AND MODEL STUDIES TO IMPROVE GAS VELOCITY DISTRIBUTION IN COTTRELL PPTRS.
J. AIR POLL. CONT. ASSOC. 10, P 307-13 (1960)
GAS FLOW

882 SPROULL, W. T.
CORONA QUENCHING - ITS SIGNIFICANCE IN ELEC. PPTN.
56TH ANN. MEETING OF APCA, (1963) DETROIT, MICH. (63-57)
CEMENT
CHARGING
ELECTRIC FIELD
DISCHARGE ELECTRODE
GASEOUS DISCHARGE
PILOT PLANT
RESISTIVITY, SEE ALSO BACK CORONA
ZINC, SEE ALSO NONFERROUS METALS

883 SPROULL, W. T., ET AL.
OPERATION OF COTTRELL PRECIPITATORS, EFFECTS OF MOISTURE AND TEMPERATURE
IND. ENG. CHEM. 43, P 1350-8 (JUNE, 1951)
CONDITIONING
GASEOUS DISCHARGE
TEMPERATURE EFFECT
LEAD, SEE ALSO NONFERROUS METALS
LIME
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
RESISTIVITY, SEE ALSO BACK CORONA
ZINC, SEE ALSO NONFERROUS METALS

884 SPRUNG, S.
THE CHEMICAL AND MINERALOGICAL COMPOSITION OF CEMENT KILN DUST
TONIND. Z. KERAM. RUNDSCHAU, 90, NO. 10, P 441-9 (1966)
CEMENT
PARTICLE CHARACTERISTICS

885 STAIRMAND, C. J.
DESIGN AND PERFORMANCE OF MODERN GAS-CLEANING EQUIPMENT
FOUNDRY TRADE J. 100, P 113-4 (1956), ENG. AND BOILER HOUSE REV. 71, P 11-17 (1956), JOURN INST FUEL 29, (1956)
ECONOMICS
EFFICIENCY
RESISTIVITY, SEE ALSO BACK CORONA

886 STAIRMAND, C. J.
REMOVAL OF GRIT, DUST AND FUME FROM EXHAUST GASES FROM CHEMICAL ENGINEERING PROCESSES
CHEM. ENGR. NO. 194, P 310-326 (DEC., 1965) VOL. 64
CHEMICAL PROCESSES
ECONOMICS

887 STASTNY, E. P.
SPEC. FOR ELECTROSTATIC PRECIPITATION COLLECTORS FOR FLY ASH COLLECTION ON IND. STEAM PLANTS
IND. COAL CONF., PURDUE UNIV. (OCT., 12, 1966)
ASH
COAL-FIRED BOILERS

888 STASTNY, E. P.
ELECTROSTATIC PRECIPITATION, THE ANSWER TO OLEUM STACK GAS CLEANING
CHEM. ENG. PROGR. 62, P 47-50 (APRIL, 1966)
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

889 STENBURG, R. L.
EFFECTS OF DESIGN AND FUEL MOISTURE ON INCINERATOR EFFLUENTS
J. AIR POLLUTION CONTROL ASSOC. 10, 114-20, APR. 1960
INCINERATION

890 STENBURG, R. L.
EFFECTS OF HIGH VOLATILE FUEL ON INCINERATOR EFFLUENTS
J. AIR POLLUTION CONTROL ASSOC. 11, 376-83, AUG. 1961
INCINERATION

891 STEPHENSON, J. D.
THEORIES OF ELECTRICAL DISCHARGE IN GASES AT NORMAL PRESSURES AND TEMPERATURES
PHIL. MAG. 15, P 257-62, (1933)
GASEOUS DISCHARGE

892 STERN, ARTHUR C.
THE MEASUREMENT AND PROPERTIES OF CINDERS AND FLY ASH
COMBUSTION 4, NO. 12, P 35-47 JUNE 1933
5 NO. 1, JULY 1933
AEROSOL SAMPLERS & ANALYZERS
ASH
COAL-FIRED BOILERS
EFFICIENCY
PARTICLE CHARACTERISTICS

893 STEVENS, S. A., ET AL.
HIGH VOLTAGE SUPPLIES FOR ELECTROSTATIC PRECIPITATORS
INST. ELEC. ENGRS., COLLOQ ON ELEC. PPTRS. (FEB., 1965)
CONTROLS
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE

894 STOPPERKA, K.
ELECTROPRECIPITATION OF SULFURIC-ACID MIST FROM WASTE GAS IN SULFURIC ACID PRODUCTION

STAUB 25, P 508-12 (1965), STAUB (ENG. TRANS) 25, P 70-74 (1965)
CORROSION
DISCHARGE ELECTRODE
PARTICLE CHARACTERISTICS
PILOT PLANT
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

893 STOPPERKA, K., ET AL.
INVESTIGATIONS OF THE ELECTROSTATIC DEPOSITION OF SULFURIC FOG
CHEM. TECH. (GERMANY) 18, P 321-7, (JUNE, 1966)
CORROSION
DISCHARGE ELECTRODE
GYPSUM
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

896 STRAUSS, W.
INDUSTRIAL GAS CLEANING
PERGAMON, OXFORD, CHAPT. 10, (1966)
BOOKS ON ESP, ALSO EXTENDED TREATMENT OF ESP

897 STRAUSS, W.
THE MECHANISMS IN HIGH-TEMPERATURE GAS CLEANING
PROC. CLEAN AIR CONF. UNIV. N. S. WALES, PAPER NO. 16, 21 P (1962)
TEMPERATURE EFFECT

898 STRAUSS, W.
DEALING WITH FUMES FROM OPEN HEARTH
IRON STEEL ENGR. 38, P 98-102 (JUNE, 1961)
AGGLOMERATION
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL

899 STRAUSS, W., ET AL.
PREDICTION OF EFFECTIVENESS OF GAS CLEANING METHODS AT HIGH TEMPERATURES AND PRESSURES
ATMOS. ENVIRON. 2, P 135-44 (MARCH, 1968)
EFFICIENCY
PRESSURE EFFECT
TEMPERATURE EFFECT
PARTICLE MIGRATION VELOCITY

900 STRINDEHAG, O. M.
LIQUID SURFACE ELECTROSTATIC PRECIPITATOR
REV. SCI. INSTR. 38, P 95-9 (JAN., 1967)
DISCHARGE ELECTRODE
PRESSURE EFFECT
WET PRECIPITATORS

901 STRONG, W. F.
CHARACTERISTICS OF POWER SUPPLIES FOR ELEC. PPTR.
ELEC. ENG. 68, P 229-34 (1949)
CONDITIONING

ELECTRICAL ENERGIZATION

902 STRONG, W. W.
ELECTRICAL PRECIPITATION OF SUSPENDED MATTER IN GASES
J. FRANKLIN INST. 174, P 239-264 (SEPT., 1912)
ELECTRICIAN 70, P 54-7 (1912)
ASH
CEMENT
CHARGING
COAL-FIRED BOILERS
COPPER, SEE ALSO NONFERROUS METALS
ELECTRIC FIELD
ELECTRIC WIND
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE
NONFERROUS METALS

903 STRONG, W. W.
ELECTRICAL PRECIPITATION - THEORY OF THE REMOVAL OF SUSPENDED MATTER FROM FLUIDS
PROC. AM. INST. ELEC. ENGRS. 34, P 229-36 (1915), DISCUSSION P 2646-52 (NOV., 1915)
GASEOUS DISCHARGE

904 STRONG, W. W.
THE POSITIVE AND NEGATIVE CORONA AND ELECTRICAL PRECIPITATION
PROC. AM. INST. ELEC. ENG. 32, P 1303-14 (1913), ELEC. WORLD 62, P 85 (1913)
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE
GAS FLOW
TEMPERATURE EFFECT

905 STRONG, W. W.
THEORETICAL ASPECTS OF ELECTRICAL FUME PRECIPITATION
TRANS. AM. ELECTROCHEM. SOC. 31, P 415-30 (1917) MET. CHEM. ENG. 16, P 648-52 (1917)
CHARGING
GASEOUS DISCHARGE
RESISTIVITY, SEE ALSO BACK CORONA

906 SUTTON, P.
AIR POLLUTION IN PETROLEUM REFINING, PART 2
CHEM. PROC. ENG. 49 (2) 96-100, FEB. 1968
PETROLEUM REFINING

907 SVOBODA, O.
METHODS FOR EQUALIZING THE FLOW OF GASES IN VERTICAL ELECTRO-PRECIPITATORS
SELECTED ARTICLES OF THE RES. INST. IN AIR HAND. EQUIP. PRAGUE, NO. 2 P 89-102 (1959)
EFFICIENCY
GAS FLOW

908 TASSICKER, ET AL.

THE ELECTRICAL RESISTIVITY OF FLY ASH FROM BAYSWATER AND
NEW VALE COAL
BULL. NO. 11, (DEC., 1966), UNIV. OF NEW SOUTH WALES
RESISTIVITY, SEE ALSO BACK CORONA

909 TAYLOR, F. L.
CONTROL PRECIPITATORS AUTOMATICALLY WITH SIMPLE SOLID-STATE CONTROL
ELEC. WORLD 167, P 131-2 (JUNE, 1967)
CONTROLS

910 TENNESSEE VALLEY AUTH.
SULF DIOXIDE REMOV FROM POWER PLT STACK GAS. CONCEPTUAL DESGN AND COST
STUDY. SORPTION BY LIMESTN OR LIME. DRY PROCESS
PUBL. NO. PB-178972, CFSTI (1968)
CONDITIONING
DUST DISPOSAL
ECONOMICS
EFFICIENCY
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING

911 TEODOSIC, V.
HIGHLY SENSITIVE ELECTROSTATIC PRECIPITATOR WITH NO MOVING PARTS
NUCL. INSTR. METHODS, 59, P 350-2 (FEB., 1968)
CONTROLS
ELECTRICAL ENERGIZATION

912 TEPLITSKII, M. G., ET AL.
DUST REMOVAL FROM A TWIN-BATH STEEL MELTING FURNACE
STAL 28, P 756+ (1968), STAL IN ENG. NO. 8, P 709-13 (1968)
EFFICIENCY
GAS FLOW
IRON AND STEEL
PARTICLE CHARACTERISTICS

913 THOMAS, J. B., ET AL.
EXPERIMENTAL STUDY OF DC CORONA AT HIGH TEMPERATURES
AND PRESSURES
J. APPLIED PHYSICS 29, NO. 8, P 1226-1230, (AUG., 1958)
GASEOUS DISCHARGE
PRESSURE EFFECT
TEMPERATURE EFFECT

914 THOMAS, J. B., ET AL.
POWER RELATIONSHIPS AND TEMPERATURE DEPENDENCE IN THE D-C CORONA
FIELD
TRANS. AM. INST. ELEC. ENGRS. 79 I, P 1-4, (1960)
GASEOUS DISCHARGE
TEMPERATURE EFFECT

915 THOMAS, J. B., ET AL.
DETERMINATION AND SIMULATION OF EQUIV. CIRCUITS OF ELEC.
PRECIPITATORS
TRANS. AM. INST. ELEC. ENGRS. (COMMUN. ELECTRON) 80, PART 1, P 315-20
(1961)
ELECTRICAL ENERGIZATION

916 THOMAS, J. B., ET AL.
CURRENT-VOLTAGE RELATIONSHIPS IN NEGATIVE PULSED CORONA
TRANS. AM. INST. ELEC. ENGRS. (COMMUN. ELECTRON) 79, PART 1, P 136-9 (1960)
GASEOUS DISCHARGE

917 THOMAS, J. W., ET AL.
A SIMPLE METHOD FOR MEASURING THE AVERAGE CHARGE ON A MONODISPERSE AEROSOL
STAUB (ENGL. TRANSL) 27, P 18-22, (AUG., 1967)
AEROSOL SAMPLERS & ANALYZERS

918 THOMPSON, D. O.
CORROSION PROBLEMS IN STACK AND DUCTS
TRANS. AM. SOC. MECH. ENGRS., J. ENG. POWER 84A, P 323-8 (OCT., 1962)
CORROSION

919 THOMPSON, ET AL.
ELECTROSTATIC PRECIPITATOR STUDIES FOR OPEN-HEARTH GAS CLEANING
J. AIR POLL. CONT. ASSOC. 5, P 139-41 (1955)
CONDITIONING
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
PILOT PLANT

920 THOM, G. G. W., ET AL.
COLL. OF OPEN-HEARTH DUST AND ITS RECLAMATION USING THE SL/RN PROCESS
CAN. MINING METAL. BULL. 59, P 1229-33 (1966)
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL

921 THORNTON, W. M.
THE ELECTRIC STRENGTH OF GASES, MEASURED BY CORONA DISCHARGE
PHIL. MAG. 28, P 666-78, (1939)
ELECTRIC FIELD
GASEOUS DISCHARGE

922 THRING, M. W., ET AL.
THE EFFECT OF HIGH TEMPERATURES ON PARTICLE COLLECTION MECHANISMS
TRANS. INST. CHEM. ENGRS. 41, P 248-54 (1963)
EFFICIENCY
TEMPERATURE EFFECT

923 TIGGES, A. J., ET AL.
LOWER FLUE-GAS EXIT TEMPERATURES THROUGH REMOVAL OF THE SOLIDS AHEAD OF THE AIR PREHEATERS
TRANS. AM. SOC. MECH. ENGRS. 78, P 305-10, DISCUSSION P 310-5 (1956)
ASH
COAL-FIRED BOILERS
CORROSION
TEMPERATURE EFFECT
OIL-FIRED BOILER
SULFUR OXIDES, SEE ALSO CONDITIONING

924 TOLMAN, R. C., ET AL.

MOTION OF DROPLETS AND PARTICLES IN THE FIELD OF THE CORONA DISCHARGE
CHEM. MET. ENG. 22, P 1203-1206 (JUN 30,1920)
ELECTRIC FIELD
GASEOUS DISCHARGE
PARTICLE MIGRATION VELOCITY

925 TOMAIDES, M.
DUST COLL. IN THE CEMENT INDUSTRY
PROC. INTERN. CLEAN AIR CONGR. PART 1, P 125-8 (1966)
CEMENT

926 TOMAIDES, M.
RECENT CZECHOSLOVAKIAN RESEARCH INTO PARTICLE COLLECTION
J. AIR POLLUTION CONTROL ASSOC. 18, NO. 1 P 681 (OCT 1968)
AEROSOL SAMPLERS & ANALYZERS
BACK CORONA, SEE ALSO RESISTIVITY
COLLECTING ELECTRODES
EFFICIENCY
GAS FLOW
RAPPING AND VIBRATING
RESISTIVITY, SEE ALSO BACK CORONA

927 TOWNSEND, J. S.
THE POTENTIALS REQUIRED TO MAINTAIN CURRENTS BETWEEN COAXIAL CYLINDERS
PHIL. MAG. 28, P 83-90, (1914)
ELECTRIC FIELD
GASEOUS DISCHARGE

928 TRENKLER, H.
IMPORTANCE OF EQUIPMENT MAINTENANCE WITH DUST COLLECTORS
STAUB 22, NO. 2, P 168-72, (1962)
ECONOMICS
EFFICIENCY
MAINTENANCE
PARTICLE MIGRATION VELOCITY
WET PRECIPITATORS

929 TRICHEL, G. W.
THE MECHANISM OF THE NEGATIVE POINT-TO-PLANE CORONA NEAR ONSET
PHYS. REV. 54, (DEC., 1938)
GASEOUS DISCHARGE

930 TRICHEL, G. W.
THE MECHANISM OF THE POSITIVE POINT-TO-PLANE CORONA IN AIR AT ATMOSPHERIC PRESSURE
PHYS. REV. 55, (FEB., 1939)
GASEOUS DISCHARGE

931 TROOST, N.
NEW APPROACH TO THEORY AND OPERATION OF ELEC. PPTRS. FOR USE ON PULVERIZED FUEL FIRED BOILERS
PROC. INSTN ELEC ENGRS 101, PART 2, (POWER ENG) P 369-89 (1954), ENG 176, P 776 (DEC., 1953)

ASH
COAL-FIRED BOILERS
EFFICIENCY

932 TRUMP, J. G., ET AL.
INFLUENCE OF ELECTRODES ON D-C BREAKDOWN IN GASES AT HIGH PRESSURE
ELEC. ENG. 69 P 961-964, (1950)
GASEOUS DISCHARGE
PRESSURE EFFECT

933 TUMA, J.
DUST PROPERTIES WHICH AFFECT SEPARATION
STAUB (ENGL. TRANSL.) 26 (11), P 1-6 (1966)
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA
WET PRECIPITATORS

934 UHLMANN, E.
THE ELECTRICAL BREAKDOWN OF AIR BETWEEN CONCENTRIC CYLINDERS
ARCH. ELEKTROTECH. 33, P 323-350, (1929)
BACK CORONA, SEE ALSO RESISTIVITY

935 UNDERWOOD, G.
REMOVAL OF SUBMICRON PART. FROM INDUS. GASES, PARTICULARLY IN THE STEEL AND ELEC. INDUSTRIES
INTERN. J. AIR WATER POLLUTION 6, P 229-63 (1962)
IRON AND STEEL
POWER PLANT

936 USSLEBER, K.
CONSTRUCTION OF A HOT-BLAST CUPOLA INSTALL. WITH WET ELEC. FILTER FOR THE TOP-GAS PURIFICATION
GIESSEREI 52, NO. 7, P 194-7, (1965)
CUPOLA
ECONOMICS
IRON AND STEEL
WET PRECIPITATORS

937 UZHOV, V. N.
NEW TYPES OF SOVIET POWER SUPPLIES FOR USE ON ELECTRIC FILTERS
ELEKTRICHESTVO, NO. 8, P 37-42, (AUG., 1951)
ELECTRICAL ENERGIZATION

938 UZHOV, V. N.
THE PROPER USE OF ELECTROFILTERS IN THE CEMENT PLANT
TZEMENT 28, NO. 6, P 11-12 (1962)
CEMENT

939 UZHOV, V. N.
PURIFICATION OF INDUSTRIAL GASES BY ELECTROFILTRATION
MOSCOW, GOS. NAUCHN-TEKHN. IZD. KHIM. LIT., 1962
BOOKS ON ESP, ALSO EXTENDED TREATMENT OF ESP

940 U. OF CAL., INST. OF ENG. RES.

MUNICIPAL INCINERATION. A STUDY OF THE FACTORS INVOLVED IN MUNICIPAL REFUSE DISPOSAL BY INCINERATION
TECH. BULLETIN 5, SERIES 37,
THE INSTITUTE, BERKELEY, CAL., (OCT.,1951), P 100
INCINERATION

941 U. S. DEPT. OF HEW
CONTROL TECH. FOR PARTICULATE AIR POLLUTANTS
NATL. AIR POLL. CONT. ADMIN. PUBL. NO. AP-51, P 4-87 TO 4-126, 6-44 TO 6-47 (1969)
ASPHALT
CEMENT
CHARGING
COAL-FIRED BOILERS
COLLECTING ELECTRODES
CONDITIONING
CONTROLS
DISCHARGE ELECTRODE
DUST DISPOSAL
ECONOMICS
EFFICIENCY
GASEOUS DISCHARGE
IRON AND STEEL
PULP AND PAPER

942 VAJDA, STEPHEN
PRECIPITATION APPLICATION IN THE STEEL INDUSTRY
ELEC. PPTR. 1959-1960, ENG. PROC. P 37, P 113-121, (DEC.,1960) (ENG. SEM. ON ELEC. PPTR. AT PENN. ST. UNIV. JUNE,1960)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
CONDITIONING
DUST DISPOSAL
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
SAFETY

943 VANHOESEN, H. E., ET AL.
AUTOMATIC CONTROL OF ELECTRICAL PRECIPITATION RECTIFIERS
TRANS. AM. INST. ELEC. ENGRS. 77, PART 1, (COMMUN. ELECTRON) P 126-8 (MARCH, 1958)
CONTROLS
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE

944 VASJUTCIKOV. A. G., ET AL.
EFF. INCREASE OF ELEC. FILTERS BY AUTOMATIC VOLTAGE CONT.
CITIMICESKAJA PROMYSLENNOSI (THE CHEM. IND.) NO. 3 P 231-233 (1967)
CONTROLS
EFFICIENCY
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE

945 VATH, D. E., ET AL.
NEW PRECIPITATOR LAYOUT AT KEYSTONE HELPS KEEP OVERALL PLANT COST DOWN
POWER ENG. 69, P 53-6 (NOV., 1965)

ASH
COAL-FIRED BOILERS
ECONOMICS
EFFICIENCY
GAS FLOW
POWER PLANT

946 VELKOFF, G. H., ET AL.
THE DETECTION OF ELECTRICALLY INDUCED SECONDARY FLOWS IN A PIPE BY MEANS OF ELEC. PROBES
OHIO ST. UNIV., DEPT. MECH. ENG. (AUG., 1967)
ELECTRIC WIND

947 VENTURINI, J. L.
ELECTRIC FURNACE PRECIPITATOR
BLAST FURN. STEEL PLANT 47, P 371-5, 383 (APRIL, 1959)
ELECTRIC ARC FURNACE
IRON AND STEEL

948 VENTURINI, T. L., ET AL.
ELECTRIC FURNACE PRECIPITATOR
ELEC. FURNACE CONF. PROC. 17 (1959) P 378-85, FUME CONTROL
IBID. P 387-388
ELECTRIC ARC FURNACE
IRON AND STEEL

949 VERNIGOR, P. I.
CLEANING THE GAS FROM THE FERROSILICON BLAST FURNACE BY MEANS OF THE ELECTROFILTER DM-9
STAL 3, NO. 11-12, P 52-3, (1943)
BLAST FURNACE, SEE ALSO IRON AND STEEL
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
IRON AND STEEL

950 VERNIGOR, P. I.
DEPOSITION OF CONSTITUENTS OF BLAST FURNACE DUST IN ELECTROSTATIC PRECIPITATORS
STAL' IN ENGLISH, NO. 11, P 937-8 (1965)
BLAST FURNACE, SEE ALSO IRON AND STEEL
EFFICIENCY
IRON AND STEEL

951 VICKERSON, G. L.
FLY ASH CONTROL EQUIPMENT FOR INDUSTRIAL INCINERATORS
PROC. NATL. INCINERATOR CONF., NYC., P 241-5, (MAY, 1966)
INCINERATION
PARTICLE CHARACTERISTICS

952 WAGNER, H. W.
ELECTROSTATIC PRECIPITATORS IN CENTRAL POWER STATIONS
CONF. ON PULV. FUEL, P 65-98, (JUNE, 1947)
ASH
COAL-FIRED BOILERS
POWER PLANT

953 WALKENHORST, W.

EXAMINATION OF DUSTS WITH THE ELECTRON MICROSCOPE
METHODS AND RESULTS
BEITR. SILIKOSE-FORSCH 18, P 27-62, (1952)
AEROSOL SAMPLERS & ANALYZERS
PARTICLE CHARACTERISTICS

954 WALKER, A. B.
ELECTROSTATIC PRECIPITATORS FOR MUNICIPAL INCINERATORS
PROC. NATL. INCINERATOR CONF. AM. SOC. MECH. ENGRS., P 13-19 (1964)
INCINERATION
PILOT PLANT

955 WALKER, A. B.
NEW DEVELOPMENTS IN THE CONTROL OF PARTICULATE EMISSION
PROC. MECAR SYMP., NYC., P 12-20, (OCT., 1967)
AGGLOMERATION
ASH
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
PRESSURE EFFECT
TEMPERATURE EFFECT
INCINERATION

956 WALKER, A. B.
APPLICATION OF ELECTROSTATIC PRECIPITATION TO NEW LIMITS OF
PRESSURE AND TEMPERATURE
AIR POLLUTION CONTROL ASSOC. MTG., SAN FRANCISCO, (JUNE, 1966)
PAPER NO. 66-122
CHARGING
GASEOUS DISCHARGE
PRESSURE EFFECT
TEMPERATURE EFFECT

957 WALKER, A. B.
ELECTROSTATIC FLY ASH PRECIPITATION FOR MUNICIPAL INCINERATORS -
A PILOT PLANT STUDY
PROC. NATL. INCINERATOR CONF., NYC., P 13-19, (1964)
INCINERATION
PILOT PLANT

958 WALKER, A. B.
INFOR. REQ. FOR THE SELEC. OF ELEC. AND COMB. FLY ASH COLL.-METH. OF
ANA. FOR CHEM.,PHYS.,AND ELEC. PROP. OF FLY ASH
J. AIR POLL. CONTROL ASSOC. 15, NO. 6, P 256-60 (1965)
ASH
RESISTIVITY, SEE ALSO BACK CORONA

959 WALKER, A. B.
AIR POLLUTION CONTROL EQUIPMENT FOR INCINERATORS
MECAR (METROP. ENG. COUNC. AIR POLL.) SYMP., INCINERATION
SOLID WASTES, N.Y., P 75-81 (1967)
INCINERATION

960 WALKER, A. B.
ENHANCED SCRUBBING OF BLACK LIQUOR BOILER FUME BY ELEC. PRE-AGGLOME.
PILOT PLANT STUDY
AIR POLL CONT ASSOC PAPR. NO. 63-58 (1963), J. AIR POLL CONT ASSOC

13, P 622-7 (DEC., 1963)
AGGLOMERATION
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
PULP AND PAPER
PILOT PLANT

961 WALKER, A. B.
NEW DEVELOPMENTS IN THE CONTROL OF PARTICULATE EMISSIONS
MECAR (METROP. ENG COUNC AIR POLL) SYMP, NEW DEVELOPMENTS AIR POLL CONT, N.Y., P 12-20 (1967)
AGGLOMERATION
ASH
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
EFFICIENCY
PRESSURE EFFECT
INCINERATION
SULFUR OXIDES, SEE ALSO CONDITIONING

962 WALKER, A. B., ET AL.
APPLICATION OF MECHANICAL COLLECTOR IN COMBINATION WITH ELECTROSTATIC PRECIPITATORS
BLAST FURNACE STEEL PLANT 47, P 622-4 (JUNE, 1959)
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.

963 WALKER, D., ET AL.
ELECTRICAL EQUIPMENT FOR ELECTROSTATIC PRECIPITATORS
AEI ENG. 3, P 123-6 (MAY-JUNE, 1963), IRON STEEL 36, P 634-41 (DEC., 1963)
CONTROLS
ELECTRICAL ENERGIZATION

964 WALKER, E. A., ET AL.
SEMIEMPIRICAL EQUATION OF ELECTROSTATIC PRECIPITATION
IND. ENG. CHEM. 45, P 2417-22 (1953)
ASH
BLAST FURNACE, SEE ALSO IRON AND STEEL
CARBON BLACK, SEE ALSO CHEMICAL PROCESSES
EFFICIENCY
GYPSUM

965 WATKINS, F. R., ET AL.
ELECTROSTATIC PRECIPITATION FOR LARGE BOILERS
PROC. INST. MECH. ENGRS. 181, PART 3N, P 78-88 (1966-67)
ASH
COAL-FIRED BOILERS
COLLECTING ELECTRODES
CONTROLS
DISCHARGE ELECTRODE
DUST DISPOSAL
RAPPING AND VIBRATING

966 WATKINS, E. R., ET AL.
THE APPLICATION OF ELEC. PPTR. TO THE CONTROL OF FUME IN THE STEEL INDUSTRY
IRON STEEL INST. (LONDON), SPEC. REPT. NO. 83, P 24-35 (1964)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL

CORROSION
DISCHARGE ELECTRODE
DUST DISPOSAL
EFFICIENCY
ELECTRIC ARC FURNACE
IRON AND STEEL
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
PARTICLE CHARACTERISTICS
RAPPING AND VIBRATING
WET PRECIPITATORS

967 WATSON, III, J.H.
CAPITAL EXPENDITURES FOR POLLUTION ABATEMENT
THE CONFERENCE BOARD RECORD, SEPT 1967
ECONOMICS

968 WATSON, K. S.
PILOT PLANT TESTING AS AN AID TO EVALUATING PRECIPITATOR PERFORMANCE
INST. ELEC. ENGRS. COLLOQ ON ELEC. PPTRS. (FEB., 1965)
PILOT PLANT

969 WATSON, K. S., ET AL.
FURTHER INVESTIGATION OF ELEC. PPTRS. FOR LARGE PULVERIZED FUEL FIRED BOILERS
AIR WATER POLLUTION INT. J. 10, NO. 9, P 573-83 (1966)
AMMONIA SEE ALSO CONDITIONING
ASH
COAL-FIRED BOILERS
CONDITIONING
PARTICLE MIGRATION VELOCITY
RAPPING AND VIBRATING
RESISTIVITY, SEE ALSO BACK CORONA

970 WEBER, E.
DUST REMOVAL FROM CUPOLA, CONSIDERING COSTS
GIESSEREI 49, WITHIN P 125-49 (MARCH, 1962)
CUPOLA
ECONOMICS
IRON AND STEEL

971 WEBER, J., ET AL.
HIGH VOLTAGE RECTIFIER UNITS FOR ELECTROSTATIC PRECIPITATORS
SIEMENS REV. 30, NO. 1 P 20-22 (JAN 1963)
CONTROLS
ELECTRICAL ENERGIZATION

972 WEINECK, H.
PROGRESS AND PROBLEMS IN METALLURGICAL DUST COLLECTION PLANTS
STAUB 24, P 475-85 (1964)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
BLAST FURNACE, SEE ALSO IRON AND STEEL
CUPOLA
ECONOMICS
IRON AND STEEL
SINTERING MACHINES, SEE ALSO IRON AND STEEL

973 WEISSLER, G. L.

POSITIVE AND NEGATIVE POINT-TO-PLANE CORONA IN PURE AND IMPURE HYDROGEN, NITROGEN AND ARGON
PHYS. REV. 63, P 96-107, (1943)
GASEOUS DISCHARGE

974 WELCH, H. V.
COLLECTION OF LEAD AND ZINC DUSTS AND FUMES BY THE COTTRELL PROCESS
TRANS. AM. INST. MINING MET. ENGRS. 121, P 304-38, (1936)
CONDITIONING
LEAD, SEE ALSO NONFERROUS METALS
NONFERROUS METALS
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES
ZINC, SEE ALSO NONFERROUS METALS

975 WEPPLER, R., ET AL.
MAGNETIC AMPLIFIERS FOR THE POWER SUPPLY OF ELECTRICAL PRECIPITATING PLANT
SIEMENS-Z. 32, NO. 1, P 9-17, (JAN., 1958)
CONTROLS
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE

976 WERNER, H.
DEVELOPMENT TRENDS IN ELECTROSTATIC FLUE GAS CLEANING
ENERGIE TECH 17, P 327-30 (AUG. 1965)
COLLECTING ELECTRODES
CONTROLS
DISCHARGE ELECTRODE
EFFICIENCY
ELECTRIC WIND
ELECTRICAL ENERGIZATION
RE-ENTRAINMENT

977 WERNER, H.
DUST REMOVAL PROBLEMS IN IRON AND STEEL WKS W/SPECIAL REF TO THE USE OF ELECTRIC FILTERS
KLEPZIG FACHBER. 72, P 392-6 (OCT. 1964)
IRON AND STEEL
SINTERING MACHINES, SEE ALSO IRON AND STEEL
WET PRECIPITATORS

978 WESTERBERG, E. N., ET AL.
ABATEMENT PROCEDURES PRESENTLY IN USE OR FEASIBLE. RECOVERY FURNACES AND THEIR OPERATION
PROC INTERN CONF ON ATMOSPHERIC EMISSIONS FROM SULFATE PULPING
P 211-43 (1966)
PULP AND PAPER

979 WESTH, H. C.
ELECTRIC DUST FILTERS
INGENIOREN 58, P 36-48, (JAN. 1, 1949)
ASH
CHARGING
COAL-FIRED BOILERS
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE

PART CLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RAPPING AND VIBRATING
TAR
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

980 WHEELER, D. H.
FUME CONTROL IN L-D PLANTS
JAPCA 18, P 98-101 (1968)
BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
ECONOMICS
IRON AND STEEL

981 WHITBY, K.T., ET AL.
CHARGING AND DECAY OF MONODISPERSED AEROSOLS IN THE PRESENCE OF UNIPOLAR ION SOURCES
J. COLLOID SCI. 20, P 585-601 (AUG 1965)
CHARGING

982 WHITE, H.J.
CHEMICAL AND PHYSICAL PARTICLE CONDUCTIVITY FACTORS IN ESP
CHEM. ENG. PROGR. 52, P 244-8 (JUNE 1956)
CHEMICAL PROCESSES
CONDITIONING
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING

983 WHITE, H. J.
PULSE METHOD FOR SUPPLYING HIGH-VOLTAGE POWER FOR ESP
TRANS AM INST ELEC ENGRS COMMUN. ELECTRON 71I, NO. 3, P 326-30 (NOV. 1952)
CONTROLS
ELECTRICAL ENERGIZATION

984 WHITE, H. J.
BASIC CONCEPTS
ENGINEERING SEMINAR ON ESP, PENN. STATE U (1955)
CHARGING
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE
GAS FLOW
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RAPPING AND VIBRATING

985 WHITE, H. J.
CORONA DISCHARGE
PROC. ENG. SEMINAR ON ESP, PENN STATE U., 1957)
GASEOUS DISCHARGE

986 WHITE, H. J.
EFFECT OF FLY ASH CHARACTERISTICS ON COLLECTOR PERFORMANCE
AM. SOC. MECH. ENGRS. PAPER 54-A-259 (1954) - ENG SEM ON ESP. PENN. STATE U (1955) JAPCA 5, P 37-50 (1955)
ASH

COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
EFFICIENCY
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
SULFUR OXIDES, SEE ALSO CONDITIONING

987 WHITE, H. J.
ELECTRICAL RESISTIVITY OF FLY ASH
PROC. APCA P 79-87 (1953) - AIR REPAIR 3, P 79-87 (1953)
POWER 97, P 172 (OCT. 1953)
AMMONIA SEE ALSO CONDITIONING
ASH
CONDITIONING
EFFICIENCY
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

988 WHITE, H. J.
ESP'S FOR ELECTRIC GENERATING STATIONS
TRANS. AM. INST. ELEC. ENGRS 72, PART 3 (POWER APP SYSTEMS) P 229-42 (APR. 1953)
ASH
COAL-FIRED BOILERS
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
CONDITIONING
EFFICIENCY
PARTICLE CHARACTERISTICS
POWER PLANT
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING

989 WHITE, H. J.
50 YEARS OF ELECTROSTATIC PRECIPITATION
JAPCA 7, P 166-77 (1957) - PROC ENG SEM PENN STATE U (1957)
BOOKS ON ESP, ALSO EXTENDED TREATMENT OF ESP

990 WHITE, H. J.
INDUSTRIAL ELECTROSTATIC PRECIPITATION
ADDISON-WESLEY PUBL. CO., READING, MASS. 1963
BOOKS ON ESP, ALSO EXTENDED TREATMENT OF ESP

991 WHITE, H. J.
MODERN ELECTRICAL PRECIPITATION
IND. ENG. CHEM. 47, P 932-9 (1955)
CHARGING
EFFICIENCY
ELECTRIC FIELD
ELECTRICAL ENERGIZATION
GASEOUS DISCHARGE
GAS FLOW
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RE-ENTRAINMENT

992 WHITE, H. J.

PARTICLE CHARGING IN ESP
TRANS. AM INST ELEC ENGRS 70, P 1186-91 (1951). PROC ENG SEM PENN. ST U (1957) (ABSTRACT) ELEC ENG 70, P 682 (AUG. 1951)
CHARGING

993 WHITE, H. J.
PROPERTIES OF AEROSOLS
ENG SEM ON ESP. PENN. STATE U (1955)
AEROSOL SAMPLERS & ANALYZERS
CHARGING
PARTICLE CHARACTERISTICS

994 WHITE, H. J.
PULSE METHOD FOR SUPPLYING HIGH-VOLTAGE POWER FOR ESP
TRANS AM INST ELEC ENGRS COMMUN. ELECTRON 71I, NO. 3, P 326-30 (NOV. 1952)
CONTROLS
ELECTRICAL ENERGIZATION

995 WHITE, H. J.
RECENT ADVANCES IN ESP IN AMERICA
COLLOG. INTERN. CENTRE. NATL. RECH. SCI. (PARIS) NO. 102 P 37-73 (1961)
ASH
CHARGING
COLLECTING ELECTRODES
CONTROLS
DISCHARGE ELECTRODE
EFFICIENCY
GASEOUS DISCHARGE
GAS FLOW
IRON AND STEEL
PARTICLE CHARACTERISTICS
RESISTIVITY, SEE ALSO BACK CORONA

996 WHITE, H. J., ET AL.
ELECTROSTATIC COLLECTION OF FLY ASH
MECH. ENG. 72, P 873-80, (NOV., 1950)
ASH
COAL-FIRED BOILERS
CONDITIONING
DUST DISPOSAL
EFFICIENCY
ELECTRICAL ENERGIZATION
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
RAPPING AND VIBRATING
RESISTIVITY, SEE ALSO BACK CORONA
SULFUR OXIDES, SEE ALSO CONDITIONING

997 WHITE, H. J., ET AL.
A SUPERIOR COLLECTING PLATE FOR ESP'S
MECH. ENG. 82, P 54-6 (1960)
BACK CORONA, SEE ALSO RESISTIVITY
COLLECTING ELECTRODES
EFFICIENCY

GAS FLOW
RESISTIVITY, SEE ALSO BACK CORONA

998 WHITE, H. J., ET AL.
DESIGN AND PERFORMANCE CHARACTERISTICS OF HIGH-VELOCITY, HIGH-EFFICIENCY AIR-CLEANING PRECIPITATORS
JAPCA 10, P 239-45 (1960), PROC. 52ND ANN MTG APCA (1959) NO. 2945
AIR CLEANING
EFFICIENCY
GAS FLOW
OZONE, SEE ALSO AIR CLEANING

999 WHITE, H. J., ET AL.
ELECTRICAL PRECIPITATION FUNDAMENTALS
ENG. PROC. P 39, PENN. STATE U (JUL 1961)
BOOKS ON ESP, ALSO EXTENDED TREATMENT OF ESP

1000 WILLISON, R. E.
APPLICATION OF SILICON RECTIFIERS TO ESP POWER SUPPLIES
DIRECT CURRENT 3, P 248-51 (MAR 1958)
ELECTRICAL ENERGIZATION

1001 WILLISON, R. E.
SILICON RECTIFIERS FOR PPTR POWER SUPPLIES
ELEC. MANUF. 61, P 126+ (JAN. 1958)
ELECTRICAL ENERGIZATION

1002 WINKEL, A., ET AL.
ELECTRICAL SEPARATION OF FINELY DISPERSED IRON OXIDE DUST AT HI TEMP W/SPECIAL CONSIDERATION TO ELECTRICAL RESISTIVITY
STAUB 22, P 343-59 (SEPT. 1962)
EFFICIENCY
GASEOUS DISCHARGE
TEMPERATURE EFFECT
IRON AND STEEL
PILOT PLANT
RESISTIVITY, SEE ALSO BACK CORONA

1003 WOLF, E. F.
USE OF TRANSPARENT SCALE MODELS IN DES OF DUST COLLECT & GAS DUCT SYSTS FOR ELEC GENERATING STATIONS
PROC ENG SEM ON ESP PENN STATE U (1957)
GAS FLOW

1004 WRIGHT, R. J.
CONCEPTS OF ELECTRIC ARC FURNACE FUME CONTROL
JAPCA 18, P 175-8 (1968)
ECONOMICS
ELECTRIC ARC FURNACE
IRON AND STEEL

1005 YOCOM, J. E., ET AL.
COLLECTION OF SILICA FUME WITH AN ESP
JAPCA 8, P 45-52 (1958)
CONDITIONING
ECONOMICS

SILICA
WET PRECIPITATORS

1006 YOUNG, J. A.
HIGH-EFFICIENCY, HIGH-VELOCITY ELECTROSTATIC PRECIPITATORS
PUBL. NO. TID-7593, P 238-43 (JULY 1959) NSA
AIR CLEANING
COLLECTING ELECTRODES
DISCHARGE ELECTRODE
GAS FLOW
MAINTENANCE
OZONE, SEE ALSO AIR CLEANING
TWO-STAGE PRECIPITATORS

1007 YOUNG, P. A., ET AL.
THE GENERATION AND TREATMENT OF SINTER PLANT DUSTS
AIMME BLAST FURN COMM PROC 20, P 299-313 (1961)
CONDITIONING
IRON AND STEEL
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY
PILOT PLANT
RESISTIVITY, SEE ALSO BACK CORONA
SINTERING MACHINES, SEE ALSO IRON AND STEEL

1008 YOUNG, T. A., JR.
GARY STEEL WORKS EXPERIENCE WITH DUST CONTROL AT NO. 3 SINTER PLANT
BLAST FURNACE STEEL PLANT 56, NO. 12, P 1057-63 (1968)
IRON AND STEEL
SINTERING MACHINES, SEE ALSO IRON AND STEEL

1009 ZAITSEV, M. M., ET AL.
CLEANING FERROMANGANESE-SMELTING GASES
STAL' 19, P 181-8 (1959)
COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
FERRO-MANGANESE
IRON AND STEEL

1010 ZARFOSS, J. R.
DUCTWORK ARRANGEMENT CRITERIA FOR ESP'S WITHOUT MODEL STUDY
PAPER 69-3 APCA (1969)
GAS FLOW

1011 ZAVYALOV, I., YA.
THE SPARKING OF SILICA INSULATORS IN ELECTRIC PRECIPITATORS
J. CHEM. IND. (USSR) 18, NO. 19, P 26 (1941)
ELECTRICAL ENERGIZATION

1012 ZEBEL, G.
THE USE OF ELECTRICAL AND MAGNETIC FORCES TO SEPARATE AND CLASSIFY
AEROSOL PARTICLES
STAUB (ENG TRANSL) 28, NO. 7 P 1-4 (JULY 1968)
ELECTRIC FIELD
PARTICLE CHARACTERISTICS
PARTICLE MIGRATION VELOCITY

1013 ZEBROWSKI, S. P.

THE DISCHARGE CHARACTERISTICS OF ELECTROFILTERS IN RELATION
TO AIR TEMP. AND HUMIDITY
PHYSIK Z. 33, P 727-9, (1929)
CONDITIONING
GASEOUS DISCHARGE

1014 ZEBROWSKI, S. P.
PARALLEL OPERATION OF LOW-FREQUENCY AND HIGH-FREQUENCY TRANSFORMERS
FOR SUPPLY TO ELECTROFILTERS
PHYS. Z. SOWJETUNION 7, NO. 2, P 213-25, (1935)
ELECTRICAL ENERGIZATION

1015 ZIEMENDORFF, R.
CORROSION PROBLEMS OF ELECTROSTATIC PRECIPITATORS
IN THE CEMENT INDUSTRY
ZEMENT-KALK-GIPS 19, NO. 4, P 171-5, (1966)
CEMENT
CORROSION
SULFUR OXIDES, SEE ALSO CONDITIONING
SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES

1016 ZIMMER, K. O.
DUST-CONTAINING FLUE GASES FORMED IN BASIC O-H FURNACE IN NORMAL
MELTING PROCESSES & IN OXYGEN BLOWING & DUST REMOV
STAHL EISEN 84, P 1070-5 (AUG 13, 1964)
OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
IRON AND STEEL

1017 ZYATIN, V. M., ET AL.
AUTOMATION OF (BOILER) ELECTRICAL FILTER
ELEKT. STANTSII, NO. 3, P 85-7, (MAR., 1960)
CONTROLS

ABSTRACT
71, 403

AEROSOL SAMPLERS & ANALYZERS
38, 61, 80, 133, 145, 209, 222, 242, 259, 276, 323, 334, 354
397, 409, 419, 481, 482, 497, 537, 541, 561, 562, 568, 570, 571
584, 586, 636, 751, 778, 782, 858, 892, 917, 926, 953, 993

AGGLOMERATION
13, 100, 244, 294, 340, 350, 362, 399, 488, 539, 588, 723, 808
877, 898, 955, 960, 961

AIR CLEANING
31, 157, 175, 306, 385, 413, 427, 537, 711, 859, 877, 998, 1006

ALUMINUM, SEE ALSO NONFERROUS METALS
292, 329, 358, 373, 453, 454, 607, 675, 843

AMMONIA SEE ALSO CONDITIONING
7, 73, 206, 476, 756, 969, 987

ASBESTOS
324, 851

ASH
10, 20, 21, 23, 24, 25, 40, 41, 42, 50, 52, 53, 61, 72, 75, 81
96, 100, 110, 114, 117, 118, 122, 130, 134, 147, 148, 149, 158
161, 174, 204, 207, 208, 209, 214, 217, 222, 251, 259, 267, 268
274, 279, 282, 284, 293, 296, 316, 317, 318, 322, 366, 376, 397
399, 406, 411, 418, 423, 430, 442, 468, 474, 476, 478, 486, 488
490, 491, 492, 514, 518, 535, 536, 540, 547, 593, 597, 612, 624
629, 635, 638, 656, 666, 668, 670, 673, 710, 720, 721, 722, 725
743, 747, 749, 751, 753, 756, 757, 780, 788, 789, 791, 799, 802
804, 821, 830, 836, 838, 859, 862, 874, 880, 887, 892, 902, 923
931, 945, 952, 955, 958, 961, 964, 965, 969, 979, 986, 987, 988
995, 996

ASPHALT
333, 627, 843, 941

AUTOMATIC CONTROLS, SEE CONTROLS

BACK CORONA, SEE ALSO RESISTIVITY
18, 75, 143, 186, 217, 253, 287, 309, 397, 402, 408, 546, 585
600, 605, 626, 652, 653, 682, 684, 685, 687, 690, 692, 698, 704
710, 715, 716, 721, 758, 827, 835, 845, 846, 878, 926, 934, 997

BASIC-OXYGEN FURNACE, SEE ALSO IRON AND STEEL
90, 132, 158, 192, 254, 265, 294, 326, 340, 342, 351, 356, 357
358, 360, 361, 404, 420, 484, 503, 516, 517, 558, 616, 619, 628
632, 678, 724, 739, 740, 823, 856, 864, 865, 942, 966, 972, 980

BESSEMER CONVERTER
221, 305, 341, 356, 617, 724

BLAST FURNACE, SEE ALSO IRON AND STEEL

27, 32, 75, 79, 82, 86, 87, 132, 139, 141, 239, 243, 264, 269
335, 343, 352, 353, 356, 357, 359, 360, 415, 450, 484, 489, 517
544, 545, 555, 624, 642, 680, 724, 790, 793, 844, 949, 950, 964
972

BOOKS ON ESP, ALSO EXTENDED TREATMENT OF ESP
33, 337, 401, 460, 495, 574, 591, 775, 779, 896, 939, 989, 990
999

BOUNDARY LAYER, SEE GAS FLOW

CALCINER, SEE THE SPECIFIC MATERIAL

CARBON BLACK, SEE ALSO CHEMICAL PROCESSES
13, 16, 75, 244, 403, 483, 675, 679, 723, 798, 843, 964

CATALYTIC PROCESSES, SEE ALSO PETROLEUM REFINING
75, 206, 262, 303, 403, 732, 742, 843

CEMENT
4, 49, 138, 157, 158, 178, 196, 197, 238, 269, 270, 292, 311
313, 314, 319, 358, 392, 403, 405, 478, 501, 515, 518, 538, 599
602, 603, 604, 605, 648, 654, 662, 663, 672, 675, 726, 729, 731
743, 781, 793, 798, 811, 843, 859, 874, 880, 882, 884, 902, 925
938, 941, 1015

CHARGING
3, 12, 31, 60, 62, 99, 101, 109, 113, 118, 123, 125, 126, 142
155, 159, 163, 169, 171, 176, 180, 185, 186, 187, 216, 217, 224
227, 230, 232, 233, 277, 281, 282, 298, 300, 303, 307, 310, 315
327, 336, 347, 348, 350, 362, 366, 383, 384, 387, 394, 395, 396
409, 410, 411, 412, 464, 477, 509, 511, 512, 513, 521, 522, 525
527, 530, 532, 566, 567, 568, 569, 570, 571, 586, 589, 613, 615
621, 622, 623, 624, 625, 631, 640, 641, 649, 681, 682, 683, 684
685, 686, 687, 688, 690, 694, 696, 699, 700, 701, 703, 713, 717
758, 785, 792, 805, 808, 809, 817, 822, 824, 850, 859, 861, 878
882, 902, 905, 941, 956, 979, 981, 984, 991, 992, 993, 995

CHEMICAL PROCESSES
269, 273, 289, 292, 358, 400, 403, 675, 745, 798, 886, 982

COAL-FIRED BOILERS
10, 20, 21, 23, 24, 25, 40, 41, 42, 50, 52, 53, 61, 73, 81, 96
110, 114, 117, 122, 130, 134, 147, 148, 149, 157, 158, 159, 161
204, 207, 208, 209, 214, 217, 222, 232, 262, 268, 269, 270, 273
274, 279, 282, 284, 292, 293, 296, 317, 318, 322, 376, 382, 396
399, 406, 418, 423, 430, 442, 468, 474, 476, 486, 488, 490, 491
492, 514, 526, 535, 536, 540, 547, 563, 585, 586, 593, 597, 612
624, 629, 638, 656, 666, 668, 669, 670, 673, 675, 720, 721, 722
725, 747, 748, 749, 750, 753, 756, 757, 780, 788, 791, 793, 799
802, 804, 821, 830, 862, 887, 892, 902, 923, 931, 941, 945, 952
965, 969, 979, 988, 996

COAL PROCESSING
35, 274, 329, 478, 526, 536, 639, 722, 859

COKE OVENS, SEE ALSO IRON AND STEEL

7, 86, 132, 188, 189, 205, 261, 484, 517, 722, 724, 765, 793

COLLECTING ELECTRODES
40, 50, 118, 121, 122, 125, 142, 143, 156, 159, 186, 214, 216
239, 241, 247, 268, 269, 312, 346, 349, 386, 398, 439, 475, 478
494, 512, 514, 531, 533, 557, 585, 676, 710, 739, 741, 770, 787
788, 801, 804, 806, 825, 850, 926, 941, 965, 976, 995, 997, 1006

COMBINATION ESP & MECHANICALS, SCRUBBERS, ETC.
49, 65, 71, 92, 94, 95, 120, 147, 148, 153, 208, 218, 244, 283
293, 294, 297, 304, 317, 329, 352, 356, 380, 399, 417, 418, 474
479, 488, 492, 516, 536, 539, 555, 594, 633, 673, 705, 723, 726
747, 753, 777, 790, 791, 792, 842, 949, 955, 960, 961, 962, 986
988, 1009

CONDITIONING
1, 23, 24, 25, 27, 28, 39, 41, 49, 56, 73, 87, 124, 136, 143
149, 200, 201, 216, 217, 254, 263, 268, 269, 270, 287, 307, 313
314, 318, 325, 326, 335, 336, 359, 396, 397, 421, 438, 442, 458
475, 486, 492, 524, 533, 557, 584, 588, 599, 600, 602, 603, 604
654, 678, 680, 716, 718, 720, 721, 727, 728, 739, 741, 742, 756
788, 796, 800, 804, 807, 810, 823, 844, 856, 879, 883, 901, 910
919, 941, 942, 969, 974, 982, 987, 988, 996, 1005, 1007, 1013

CONDUCTIVITY, SEE RESISTIVITY

CONTROLS
3, 10, 23, 24, 25, 28, 50, 52, 53, 71, 74, 81, 125, 172, 173
223, 237, 246, 260, 272, 278, 336, 338, 346, 365, 366, 367, 375
386, 389, 413, 425, 471, 488, 507, 564, 565, 595, 643, 644, 646
668, 680, 743, 744, 789, 794, 814, 815, 818, 819, 842, 850, 854
867, 893, 909, 911, 941, 943, 944, 963, 965, 971, 975, 976, 983
995, 1017

COPPER, SEE ALSO NONFERROUS METALS
28, 196, 199, 331, 381, 438, 612, 762, 843, 880, 902

CORONA, SEE GASEOUS DISCHARGE

CORROSION
2, 47, 50, 94, 148, 285, 289, 375, 421, 445, 473, 529, 548, 676
741, 764, 860, 873, 894, 895, 918, 923, 966, 1015

CRACKING, SEE CATALYTIC PROCESSES

CUPOLA
55, 86, 93, 132, 142, 177, 202, 203, 245, 257, 262, 264, 325
344, 353, 360, 370, 400, 466, 517, 559, 610, 611, 674, 680, 793
804, 807, 874, 936, 970, 972

DISCHARGE, SEE GASEOUS DISCHARGE

DISCHARGE ELECTRODE
43, 50, 52, 53, 97, 118, 121, 122, 125, 135, 142, 156, 159, 186
216, 241, 247, 268, 269, 312, 346, 349, 375, 386, 398, 439, 443
475, 529, 533, 552, 553, 557, 585, 739, 770, 788, 789, 804, 825

839, 850, 882, 894, 895, 900, 941, 965, 966, 976, 995, 1006

DUST DISPOSAL
81, 135, 141, 236, 237, 275, 335, 404, 418, 423, 448, 536, 597
632, 654, 668, 720, 730, 740, 747, 764, 788, 910, 941, 942, 965
966, 996

ECONOMICS
1, 56, 78, 90, 93, 96, 110, 127, 136, 137, 138, 147, 148, 157
158, 159, 193, 213, 218, 245, 258, 283, 284, 285, 286, 288, 317
325, 333, 339, 340, 403, 404, 417, 448, 462, 465, 484, 497, 538
559, 597, 614, 632, 644, 651, 668, 670, 729, 731, 742, 765, 786
791, 801, 811, 860, 885, 886, 910, 928, 936, 941, 945, 967, 970
972, 980, 1004, 1005

EFFICIENCY
3, 11, 12, 18, 23, 24, 25, 26, 27, 28, 29, 34, 49, 50, 52, 53
60, 61, 71, 73, 75, 79, 83, 85, 92, 93, 100, 103, 117, 119, 120
122, 124, 127, 133, 136, 137, 138, 142, 143, 147, 148, 149, 159
160, 167, 170, 172, 179, 181, 182, 184, 194, 201, 204, 208, 216
217, 218, 226, 227, 241, 245, 247, 252, 253, 259, 266, 267, 270
274, 277, 279, 283, 293, 296, 303, 307, 308, 312, 313, 314, 317
336, 346, 349, 359, 364, 366, 367, 370, 371, 375, 383, 384, 386
388, 389, 391, 393, 394, 395, 396, 397, 402, 406, 407, 412, 417
427, 429, 430, 436, 439, 440, 441, 442, 444, 450, 464, 470, 474
479, 480, 488, 489, 490, 493, 494, 496, 498, 499, 500, 504, 506
508, 509, 512, 518, 529, 530, 532, 535, 537, 548, 551, 557, 563
564, 585, 586, 589, 592, 597, 598, 601, 604, 611, 612, 613, 622
623, 624, 626, 632, 633, 634, 635, 638, 640, 641, 644, 656, 661
678, 679, 680, 682, 683, 684, 685, 686, 706, 708, 709, 711, 714
716, 720, 721, 723, 725, 727, 729, 731, 746, 747, 749, 750, 756
757, 759, 763, 764, 766, 769, 772, 774, 792, 797, 801, 804, 806
810, 812, 825, 831, 838, 842, 847, 848, 859, 869, 870, 880, 89
892, 899, 907, 910, 912, 922, 926, 928, 931, 941, 944, 945, 950
961, 964, 966, 976, 986, 987, 988, 991, 995, 996, 997, 998, 1002

ELECTRIC ARC FURNACE
91, 124, 132, 158, 160, 192, 200, 323, 357, 361, 370, 371, 414
421, 619, 645, 679, 680, 724, 740, 741, 844, 947, 948, 968, 1004

ELECTRIC FIELD
8, 17, 31, 99, 152, 155, 163, 165, 168, 171, 183, 185, 186, 187
225, 227, 230, 231, 234, 248, 249, 250, 280, 281, 300, 315, 321
387, 402, 427, 443, 464, 529, 531, 566, 567, 571, 586, 615, 626
630, 653, 671, 684, 688, 689, 690, 692, 694, 696, 697, 699, 700
701, 702, 703, 704, 709, 711, 713, 718, 719, 730, 734, 758, 785
809, 824, 835, 849, 861, 871, 882, 902, 921, 924, 927, 991, 1012

ELECTRIC WIND
19, 164, 226, 231, 425, 528, 659, 746, 766, 767, 771, 772, 774
902, 946, 976

ELECTRICAL ENERGIZATION
23, 24, 25, 27, 28, 52, 53, 69, 74, 101, 102, 126, 128, 135
144, 156, 172, 240, 241, 260, 272, 278, 282, 309, 336, 349, 365
389, 397, 413, 418, 425, 472, 478, 480, 488, 499, 509, 518, 534

535, 556, 564, 570, 590, 595, 597, 624, 626, 643, 644, 646, 650
661, 680, 683, 712, 743, 754, 790, 794, 795, 796, 814, 815, 818
820, 842, 850, 855, 867, 893, 901, 902, 904, 911, 915, 937, 943
944, 963, 971, 975, 976, 979, 983, 984, 991, 996, 1000, 1001
1011, 1014

ELECTRODE, SEE DISCHARGE ELECTRODE, COLLECTING ELECTRODE

EROSION, SEE RE-ENTRAINMENT

EXPLOSION, SEE SAFETY

FERRO-MANGANESE
87, 335, 724, 874, 1009

FERROUS METALS, SEE IRON AND STEEL

FIRE PREVENTION, SEE SAFETY

FLY ASH, SEE ASH

FOG
695

FOUNDRIES
55, 93, 305, 344, 354, 357, 400, 466, 467, 610, 627, 637, 674
741, 793

GAS, SEE THE SPECIFIC GAS

GAS FLOW
1, 3, 6, 11, 23, 24, 25, 27, 28, 40, 45, 51, 52, 53, 54, 64
75, 85, 88, 98, 101, 115, 119, 121, 135, 140, 142, 156, 164
176, 179, 181, 182, 184, 191, 210, 211, 214, 236, 247, 252, 254
268, 270, 277, 279, 288, 293, 307, 312, 336, 346, 349, 350, 367
382, 391, 393, 407, 408, 412, 421, 427, 430, 431, 432, 433, 434
435, 436, 439, 440, 441, 444, 452, 464, 475, 480, 483, 488, 490
493, 494, 496, 498, 500, 503, 506, 512, 519, 530, 535, 563, 573
612, 656, 658, 659, 667, 668, 680, 706, 708, 710, 727, 728, 746
750, 752, 757, 759, 760, 766, 769, 771, 772, 774, 778, 792, 801
806, 817, 827, 835, 842, 847, 850, 863, 864, 865, 871, 872, 877
881, 904, 907, 912, 926, 945, 984, 991, 995, 997, 998, 1003
1006, 1010

GASEOUS DISCHARGE
15, 17, 46, 50, 60, 62, 99, 104, 105, 106, 107, 108, 112, 125
129, 155, 165, 166, 167, 170, 172, 176, 180, 183, 185, 186, 187
212, 216, 218, 223, 224, 225, 227, 230, 231, 232, 233, 234, 235
241, 248, 249, 280, 291, 295, 301, 307, 309, 310, 345, 350, 384
391, 395, 396, 397, 399, 408, 422, 424, 439, 443, 459, 469, 472
475, 485, 505, 506, 510, 523, 525, 527, 532, 533, 552, 553, 560
572, 575, 576, 577, 578, 579, 580, 581, 582, 588, 589, 605, 615
620, 622, 624, 625, 626, 630, 641, 653, 656, 658, 659, 660, 677
681, 684, 692, 693, 694, 696, 697, 704, 711, 712, 715, 717, 719
721, 735, 738, 743, 761, 768, 770, 783, 785, 800, 805, 822, 824
829, 831, 832, 833, 834, 835, 839, 848, 852, 878, 882, 883, 891

893, 902, 903, 904, 905, 913, 914, 916, 921, 924, 927, 929, 930
932, 941, 943, 944, 956, 973, 975, 979, 984, 985, 991, 995, 1002
1013

GOLD, SEE ALSO NONFERROUS METALS
297, 612

GYPSUM
1, 374, 463, 843, 895, 964

HIGH RESISTIVITY, SEE RESISTIVITY

HIGH TEMPERATURE, SEE TEMPERATURE EFFECT

HISTORY
18, 66, 195, 197, 198, 199, 773

HOPPERS, SEE DUST DISPOSAL

HUMIDITY, SEE CONDITIONING

INCINERATION
14, 20, 22, 68, 93, 116, 134, 136, 137, 153, 251, 267, 283, 316
325, 462, 465, 468, 487, 627, 657, 755, 778, 801, 889, 890, 940
951, 954, 955, 957, 959, 961

INSTRUMENTATION, SEE CONTROLS

IONIZATION, SEE GASEOUS DISCHARGE

IRON AND STEEL
5, 6, 14, 26, 27, 55, 57, 67, 75, 86, 87, 103, 111, 124, 132
139, 141, 157, 160, 177, 192, 200, 202, 203, 221, 228, 232, 236
237, 243, 245, 254, 256, 262, 264, 265, 266, 271, 273, 285, 290
292, 294, 304, 305, 319, 326, 335, 339, 340, 341, 342, 343, 351
352, 353, 354, 355, 356, 358, 360, 361, 370, 371, 378, 392, 400
404, 415, 420, 421, 428, 446, 448, 449, 450, 451, 453, 457, 467
484, 503, 516, 517, 518, 520, 524, 543, 544, 545, 548, 549, 550
555, 558, 573, 608, 610, 616, 617, 618, 619, 624, 628, 632, 642
664, 665, 674, 678, 679, 680, 724, 739, 740, 741, 777, 784, 788
790, 793, 798, 803, 804, 807, 816, 823, 825, 844, 856, 857, 858
859, 863, 864, 865, 874, 875, 898, 912, 919, 920, 935, 936, 941
942, 947, 948, 949, 950, 966, 970, 972, 977, 980, 995, 1002
1004, 1007, 1008, 1009, 1016

LEAD, SEE ALSO NONFERROUS METALS
36, 196, 199, 381, 542, 608, 883, 974

L-D PROCESS, SEE BASIC OXYGEN FURNACE

LIGNITE
117, 407, 453

LIME
89, 95, 274, 476, 554, 733, 825, 883

MAINTENANCE

3, 27, 30, 96, 135, 150, 158, 220, 275, 285, 461, 473, 612, 668
678, 788, 803, 825, 841, 869, 928, 1006

MANUFACTURED GAS
188, 205, 452, 853

MECHANICAL COLLECTOR, SEE COMBINATION ESP, ETC.

METALLURG. PROCESSES, SEE IRON AND STEEL, NONFERROUS METALS

METHANE
16, 255, 507

MIGRATION VELOCITY, SEE PARTICLE MIGRATION VELOCITY

MODELS, SEE GAS FLOW

NATURAL GAS, SEE METHANE

NICKEL, SEE NONFERROUS METALS

NONFERROUS METALS
9, 36, 57, 67, 197, 199, 228, 229, 271, 290, 292, 297, 303, 329
363, 372, 373, 381, 392, 429, 438, 451, 453, 458, 468, 518, 524
543, 583, 607, 612, 627, 675, 762, 798, 840, 843, 902, 974

NUCLEAR, SEE RADIOACTIVE

OIL-FIRED BOILER
58, 148, 322, 328, 354, 442, 492, 594, 675, 923

OIL FUME
16, 333, 368, 381, 442, 461, 550, 594, 627, 848

OPEN HEARTH FURNACE, SEE ALSO IRON AND STEEL
5, 6, 86, 111, 142, 160, 192, 211, 236, 237, 254, 265, 266, 360
371, 446, 447, 449, 484, 549, 573, 608, 680, 724, 740, 784, 803
844, 857, 858, 863, 864, 865, 874, 875, 883, 898, 919, 920, 942
966, 1016

OZONE, SEE ALSO AIR CLEANING
16, 31, 529, 998, 1006

PARTICLE CHARACTERISTICS
8, 11, 12, 13, 21, 28, 31, 65, 70, 76, 79, 83, 92, 100, 124
142, 143, 145, 146, 154, 162, 163, 169, 171, 194, 210, 211, 214
216, 256, 257, 268, 270, 276, 277, 284, 285, 293, 298, 299, 301
303, 304, 307, 310, 320, 321, 325, 332, 353, 354, 356, 370, 371
372, 383, 391, 393, 394, 395, 397, 399, 409, 411, 412, 423, 427
429, 442, 455, 475, 498, 499, 500, 503, 506, 511, 512, 517, 521
522, 525, 531, 532, 551, 562, 563, 567, 568, 569, 571, 586, 588
594, 608, 613, 621, 623, 624, 629, 631, 633, 634, 636, 638, 656
668, 671, 673, 674, 679, 680, 682, 683, 689, 699, 703, 705, 706
707, 708, 709, 711, 713, 714, 725, 743, 751, 766, 771, 782, 786
792, 793, 797, 801, 806, 808, 816, 817, 822, 826, 827, 836, 860
861, 871, 884, 892, 894, 912, 933, 951, 953, 966, 979, 982, 984

986, 988, 991, 993, 995, 996, 1007, 1012

PARTICLE CHARGING, SEE CHARGING

PARTICLE MIGRATION VELOCITY
1, 8, 12, 31, 60, 79, 98, 119, 142, 159, 168, 169, 170, 171
179, 181, 182, 184, 194, 216, 217, 226, 227, 254, 268, 269, 270
281, 303, 308, 320, 321, 336, 367, 384, 387, 388, 393, 394, 395
396, 397, 402, 408, 427, 441, 486, 493, 496, 498, 500, 503, 506
527, 530, 532, 551, 553, 584, 585, 586, 589, 623, 624, 625, 679
680, 683, 688, 689, 691, 697, 702, 703, 707, 708, 711, 727, 734
743, 750, 769, 774, 792, 806, 812, 824, 826, 827, 850, 879, 899
924, 928, 969, 979, 984, 986, 991, 996, 1007, 1012

PETROLEUM REFINING
75, 262, 274, 402, 403, 452, 478, 798, 906

PHOSPHORIC ACID, SEE ALSO CHEMICAL PROCESSES
403, 843, 860, 876

PHOSPHOROUS, SEE ALSO CHEMICAL PROCESSES
75, 262, 361

PILOT PLANT
37, 42, 79, 87, 142, 211, 221, 256, 294, 340, 386, 421, 429
486, 492, 506, 563, 723, 790, 804, 806, 830, 882, 894, 919, 954
957, 960, 968, 1002, 1007

POWER PLANT
20, 21, 48, 50, 52, 58, 71, 72, 110, 114, 116, 134, 148, 151
157, 161, 204, 207, 209, 214, 251, 259, 268, 271, 292, 296, 318
322, 358, 376, 382, 399, 432, 433, 468, 486, 490, 526, 535, 536
547, 647, 666, 670, 720, 721, 748, 749, 750, 757, 780, 798, 935
945, 952, 988

POWER SUPPLIES, SEE ELECTRICAL ENERGIZATION

PRESSURE EFFECT
16, 75, 105, 106, 107, 108, 165, 253, 255, 295, 350, 368, 424
459, 484, 505, 523, 566, 642, 652, 668, 681, 727, 735, 761, 768
799, 829, 831, 832, 833, 837, 838, 852, 899, 900, 913, 932, 955
956, 961

PULP AND PAPER
44, 75, 94, 95, 158, 190, 271, 273, 289, 292, 319, 375, 377
380, 403, 539, 598, 675, 676, 763, 764, 798, 941, 960, 978

RADIOACTIVE
63, 154, 268, 306, 429, 581, 737, 789, 859

RAPPING AND VIBRATING
6, 10, 28, 52, 53, 70, 71, 76, 118, 120, 121, 135, 156, 159
214, 215, 237, 247, 269, 270, 323, 346, 349, 367, 369, 375, 390
393, 395, 416, 447, 478, 480, 488, 508, 530, 557, 563, 585, 588
598, 609, 612, 654, 656, 676, 709, 710, 720, 727, 739, 740, 766
776, 787, 804, 828, 842, 850, 880, 926, 965, 966, 969, 979, 984

996

RE-ENTRAINMENT
59, 71, 125, 179, 181, 182, 307, 336, 393, 396, 402, 426, 533
563, 586, 655, 707, 709, 710, 714, 718, 736, 740, 746, 766, 769
826, 827, 850, 873, 877, 880, 976, 991

RECTIFIER, SEE ELECTRICAL ENERGIZATION

RESISTIVITY, SEE ALSO BACK CORONA
10, 11, 23, 24, 25, 27, 56, 73, 75, 84, 109, 117, 121, 124, 143
148, 153, 163, 174, 216, 217, 241, 253, 254, 263, 264, 265, 268
269, 287, 288, 293, 301, 307, 309, 330, 336, 359, 366, 388, 395
396, 397, 406, 408, 417, 423, 442, 474, 475, 480, 486, 506, 509
514, 518, 533, 542, 546, 557, 584, 585, 599, 600, 602, 603, 604
605, 613, 625, 634, 652, 654, 661, 663, 668, 673, 674, 679, 680
682, 685, 687, 692, 697, 703, 710, 715, 716, 717, 718, 720, 721
727, 741, 743, 750, 753, 758, 785, 788, 789, 807, 809, 817, 827
835, 836, 845, 850, 868, 873, 878, 879, 880, 882, 883, 885, 905
908, 910, 926, 933, 958, 969, 982, 987, 988, 995, 996, 997, 1002
1007

ROASTERS, SEE THE SPECIFIC METAL

SAFETY
3, 113, 220, 223, 359, 420, 461, 507, 560, 644, 765, 942

SAMPLERS, SEE AEROSOL SAMPLERS AND ANALYZERS

SCRUBBERS, SEE COMBINATION ESP, ETC.

SILICA
302, 1005

SILVER, SEE THE SPECIFIC METAL

SINTERING MACHINES, SEE ALSO IRON AND STEEL
26, 103, 132, 265, 357, 517, 520, 724, 740, 793, 844, 972, 977
1007, 1008

SMELTERS, SEE THE SPECIFIC METAL

SPARKING, SEE GASEOUS DISCHARGE

STEEL, SEE IRON AND STEEL

SULFUR OXIDES, SEE ALSO CONDITIONING
40, 50, 58, 93, 94, 110, 117, 118, 127, 143, 148, 149, 174, 199
201, 206, 207, 208, 209, 211, 217, 268, 269, 270, 284, 318, 354
364, 374, 381, 397, 403, 447, 474, 486, 492, 524, 540, 548, 594
596, 604, 720, 721, 722, 750, 756, 757, 810, 879, 894, 910, 923
961, 982, 986, 987, 988, 996, 1015

SULFURIC ACID, SEE ALSO CHEMICAL PROCESSES
40, 50, 77, 110, 127, 143, 194, 197, 199, 201, 208, 209, 211
262, 271, 284, 392, 403, 431, 447, 481, 482, 524, 594, 596, 604

720, 721, 722, 743, 756, 757, 843, 859, 888, 894, 895, 974, 979
987, 1015

SYNTHETIC GAS, SEE CHEMCIAL PROCESSES

TAR
7, 13, 131, 188, 219, 240, 286, 329, 379, 395, 452, 478, 502
587, 606, 765, 793, 813, 825, 859, 866, 979

TEMPERATURE EFFECT
15, 28, 40, 75, 106, 110, 138, 148, 180, 190, 211, 214, 218
254, 265, 297, 310, 325, 342, 344, 418, 423, 447, 448, 462, 470
488, 492, 505, 532, 539, 546, 557, 584, 600, 602, 603, 612, 634
654, 663, 668, 678, 681, 720, 721, 727, 731, 747, 756, 757, 762
777, 799, 816, 823, 829, 830, 831, 832, 833, 834, 836, 837, 838
839, 844, 878, 883, 897, 899, 904, 913, 914, 922, 923, 955, 956
1002

TIN, SEE ALSO NONFERROUS METALS
36, 363

TUNGSTEN, SEE NONFERROUS METALS

TURBULENCE, SEE GAS FLOW

TWO-STAGE PRECIPITATORS
3, 126, 437, 455, 456, 461, 640, 708, 711, 859, 873, 878, 879
1006

VELOCITY, SEE GAS FLOW, PARTICLE MIGRATION VELOCITY

VIBRATING, SEE RAPPING

WET PRECIPITATORS
27, 79, 139, 239, 274, 285, 311, 352, 353, 357, 360, 404, 421
429, 443, 452, 489, 498, 606, 607, 616, 617, 627, 640, 642, 674
680, 716, 793, 804, 870, 873, 900, 928, 933, 936, 966, 977, 1005

ZINC, SEE ALSO NONFERROUS METALS
36, 262, 381, 458, 542, 608, 762, 790, 853, 882, 883, 974